CFD-S01

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E Model
Australian Model

Ver. 1.3 2007.07

CD Section	Model Name Using Similar Mechanism	CFD-S350L
	CD Mechanism Type	KSM-213CDP
	Optical Pick-up Name	KSS-213C
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-S01

SPECIFICATIONS

CD player section

System
Compact disc digital audio system
Laser diode properties
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Number of channels
2
Frequency response
20 - 20 000 Hz +1/–2 dB
Wow and flutter
Below measurable limit

Radio section

Frequency range
FM: 87.5 - 108 MHz
CND, E92, MX model:
AM: 530 - 1 710 kHz
TW model:
AM: 531 - 1 611 kHz
EXCEPT CND, E92, MX, TW model:
AM: 531 - 1 611 kHz (9 kHz step)
530 - 1 610 kHz (10 kHz step)
IF
FM: 10.7 MHz
AM: 450 kHz
Antennas

Cassette-corder section

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 150 s (sec.) with Sony cassette C-60
Frequency response
TYPE I (normal): 80 - 10 000 Hz

General

Speaker
Full range: 8 cm dia., 4 Ω, cone type (2)
Outputs
Headphones jack (stereo minijack):
For 16 - 32 Ω impedance headphones
Power output
1.7 W + 1.7 W (at 4 Ω, 10% harmonic distortion)
Power requirements
For CD radio cassette-corder:
120 V AC, 60 Hz (CND, E92, MX, TW model)
230 V AC, 50 Hz (AEP, UK, E41, AUS, CET, IT, SP, TH model)
220 V AC, 60 Hz (KR model)
220 - 230 V AC, 50 Hz (AR model)
9 V DC, 6 R14 (size C) batteries
Power consumption
AC 13 W (CND, E92, MX, TW model)
AC 11 W (EXCEPT CND, E92, MX, TW model)

– Continued on next page –

Battery life

For CD radio cassette-corder:

FM recording
Sony R14P: approx. 6 h
Sony alkaline LR14: approx. 20 h
Tape playback
Sony R14P: approx. 3 h
Sony alkaline LR14: approx. 12 h
CD playback
Sony R14P: approx. 1.5 h
Sony alkaline LR14: approx. 7 h

Dimensions

Approx. 360 × 141 × 235 mm (w/h/d) (incl. projecting parts)

Mass

Approx. 2.6 kg (incl. batteries)

Supplied accessory

AC power cord (1)

Design and specifications are subject to change without notice.

- Abbreviation

CND : Canadian model
E41 : AC 230V area in E model
E92 : AC 120V area in E model
AUS : Australian model
AR : Argentina model
CET : East European & Russian model
IT : Italian model
KR : Korea model
MX : Mexican model
SP : Singapore model
TH : Thai model
TW : Taiwan model

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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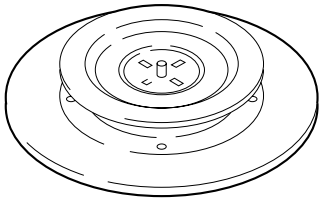
SECTION 1
SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

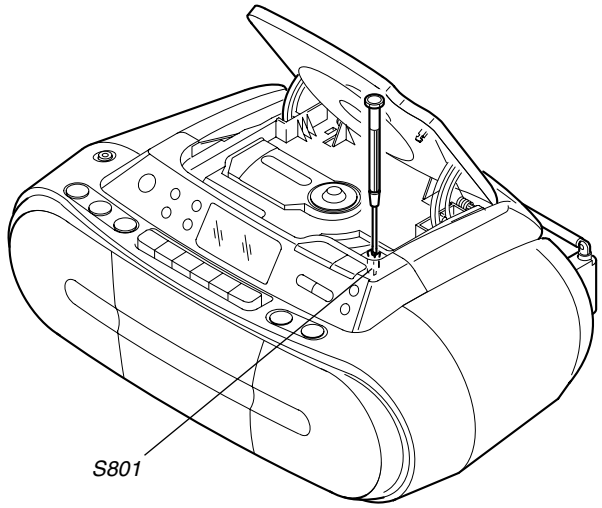
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

• Code number of Chuck Plate Jig: X-4918-255-1



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

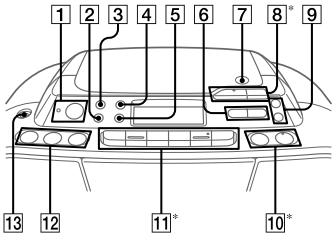
1. Turn ON the [OPERATE] button and press [CD] button to CD position.
2. Open the CD lid.
3. Turn on S801 with screwdriver, etc. as following figure.
4. Press the [►II] (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down three times for focus search.



SECTION 2
GENERAL

This section is extracted from instruction manual.

Basic Operations



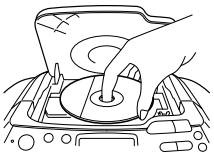
* VOLUME + 12 ▶II 8, and ◄ 11 have a tactile dot.

Playing a CD

1 Press CD 12 (direct power-on).

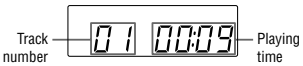
2 Press ≜ PUSH OPEN/CLOSE 7 and place a disc with the label side up on the CD compartment.

To close the CD compartment, press ≜ PUSH OPEN/CLOSE 7.



3 Press ▶II 8.

The player plays all the tracks once.



To	Press
Pause playback	▶II 8. To resume play, press it again.
Stop playback	■ 8.
Go to the next track	▶▶I 6.
Go back to the previous track	I◀◀ 6.
Locate a point while listening to the sound	▶▶I (forward) or I◀◀ (backward) 6 while playing and hold it until you find the point.
Locate a point while observing the display	▶▶I (forward) or I◀◀ (backward) 6 in pause and hold it until you find the point.
Remove the CD	≜ PUSH OPEN/CLOSE 7

Using the display

To check the total track number and playing time

Press DISPLAY•ENTER 5 in stop mode.

To check the remaining time

Press DISPLAY•ENTER 5 repeatedly while playing a CD. The display changes as follows:

The current track number and playing time
↓
The current track number and the remaining time of the current track*
↓
The number of tracks left and remaining time on the CD

* For a track whose number is more than 20, the remaining time appears as "- -:- -" in the display.

Selecting the play mode

Press MODE 4 until "↻ 1", "↻", "SHUF", "SHUF" and "↻", "PGM", or "PGM" and "↻" appear in the display. Then proceed as follows:

To Select	Select	Then do this
Repeat a single track	"↻ 1"	Press I◀◀ or ▶▶I 6 to select the track that you want to repeat, then press ▶II 8.
Repeat all tracks	"↻"	Press ▶II 8.
Shuffle play	"SHUF"	Press ▶II 8.
Repeat tracks in random order	"SHUF" and "↻"	Press ▶II 8.
Program play	"PGM"	Press I◀◀ or ▶▶I 6 then press DISPLAY•ENTER 5 for the tracks you want to program in the order you want up to 20 tracks. Then press ▶II 8.

Repeat programed tracks	"PGM" and "↻"	Press I◀◀ or ▶▶I 6 then press DISPLAY•ENTER 5 for the tracks you want to program in the order you want up to 20 tracks. Then Press ▶II 8.

To cancel selected play mode

Press MODE 4 repeatedly until the selected mode disappears from the display.

To check the programed track and playing order in the display

To check the order of tracks before play, press DISPLAY•ENTER 5.

Every time you press the button, the track number appears in the programed order.

To change the current program

Press ■ 8 once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programing procedure.

Tips

- You can play the same program again, since the program is saved until you open the CD compartment.
- You can record your own program. After you've created the program, insert a blank tape and press ● 11 to start recording.

Listening to the radio

1 Press RADIO BAND•AUTO PRESET 12 repeatedly (direct power-on).

Each time you press the button, the indication changes as follows:

"FM" → "AM"

2 Hold down TUNE + or – 9 until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you can't tune in a station, press the button repeatedly to change the frequency step by step.

When an FM stereo broadcast is received, "ST" appears.

Tip

If the FM broadcast is noisy, press MODE 4 until "Mono" appears in the display and radio will play in monaural.

Changing the AM tuning interval

If you need to change the AM tuning interval, do the following:

1 While keeping the RADIO BAND•AUTO PRESET 12 and CD 12 pressed, disconnect the AC power cord from the wall outlet.

2 While keeping the RADIO BAND•AUTO PRESET 12 and CD 12 pressed, reconnect the AC power cord to the wall outlet. The tuning interval is changed and "AM 9" or "AM 10" appears in the display for 4 seconds.

After changing the tuning interval, you need to reset your preset radio stations.

Presetting radio stations

You can store radio stations into the player's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

1 Press RADIO BAND•AUTO PRESET 12 to select the band.

2 Hold down RADIO BAND•AUTO PRESET 12 for 2 seconds until "AUTO" flashes in the display.

3 Press DISPLAY•ENTER 5.

The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

1 Press RADIO BAND•AUTO PRESET 12 to select the band.

2 Tune in a station you want.

3 Hold down DISPLAY•ENTER 5 for 2 seconds until the preset number flashes in the display.

4 Press PRESET + or – 6 until the preset number you want for the station flashes in the display.

5 Press DISPLAY•ENTER 5.

The new station replaces the old one.

Tip

The preset radio stations remain in memory even if you unplug the AC power cord or remove the batteries.

Playing preset radio stations

1 Press RADIO BAND•AUTO PRESET 12 to select the band.

2 Press PRESET + or – 6 to tune in the stored station.

Playing a tape

1 Press TAPE 12 (direct power-on).

2 Press ■≜ 11, and insert the tape into the tape compartment with the side you want to play facing you. Use TYPE I (normal) tape only. Close the compartment.

Make sure there is no slack in the tape to avoid damaging the tape or the unit.

3 Press ◄ 11.

The player starts playing.

To	Press
Pause playback	II 11. To resume play, press it again.
Stop playback	■≜ 11.
Fast-forward or rewind*	◀◀ or ▶▶ (fast forward or rewind) 11.
Eject the cassette	■≜ 11.

* When the tape is wound to the end, press ■≜ 11 to release ◀◀ or ▶▶ 11.

Recording on a tape

1 Press ■≜ 11 to open the tape compartment and insert a blank tape with the side you want to record on facing you. Use TYPE I (normal) tape only. Close the compartment.

2 Select the program source you want to record.

To record from the CD player, place a CD and press CD 12.

To record from the radio, tune in the station you want.

3 Press ● 11 to start recording

(◄ is depressed automatically).

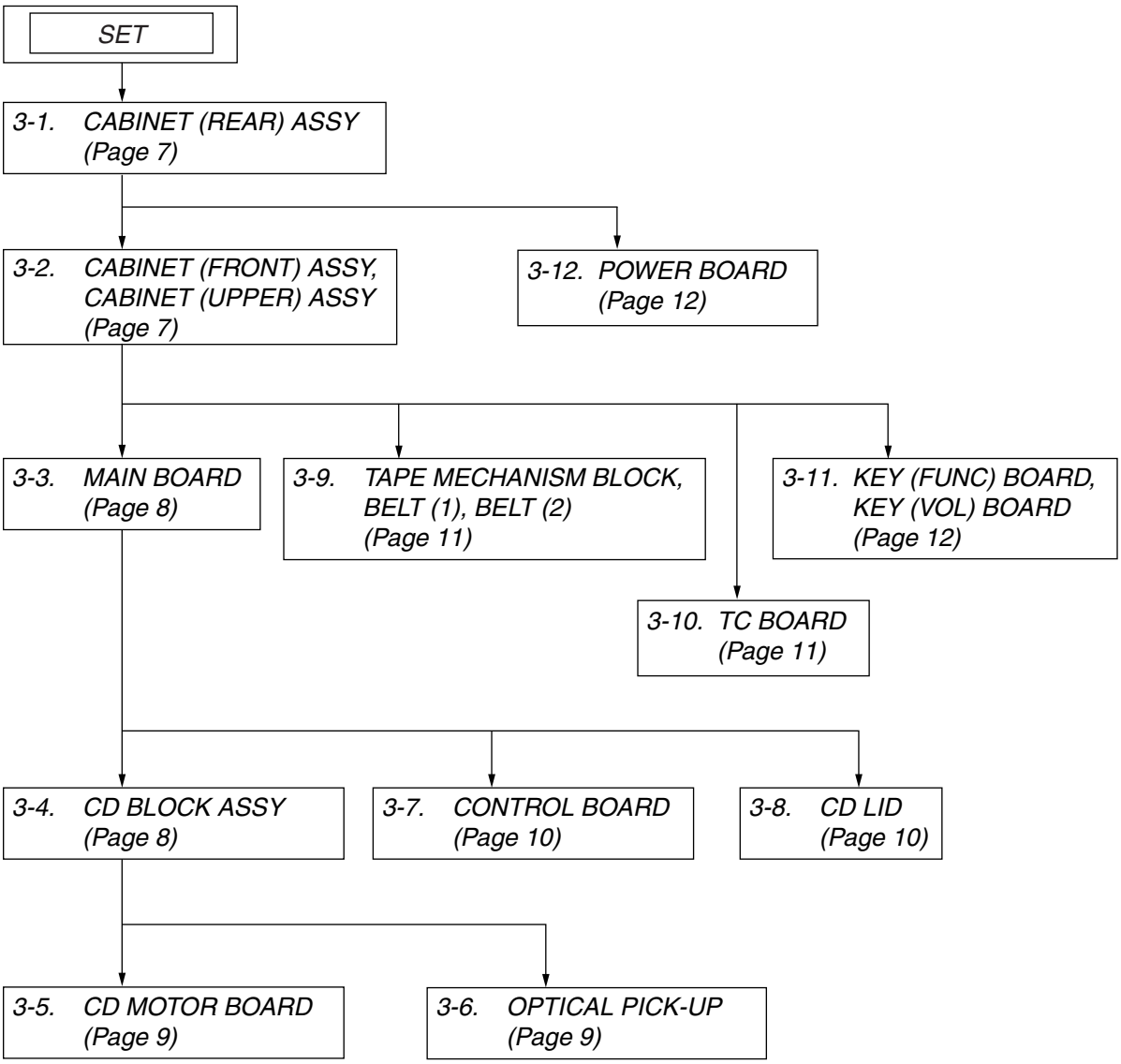
To	Press
Pause recording	II 11. To resume recording, press it again.
Stop recording	■≜ 11.

Tips

- Adjusting the volume or the audio emphasis will not affect the recording level.
- For the best results, use wall outlet as a power source for recording.
- To erase a recording, proceed as follows:
  1 Insert the tape whose recording you want to erase.
  2 Press TAPE 12.
  3 Press ● 11.

SECTION 3
DISASSEMBLY

Note: This set can be disassemble according to the following sequence.


SET
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3-11. KEY (FUNC) BOARD, KEY (VOL) BOARD (Page 12)
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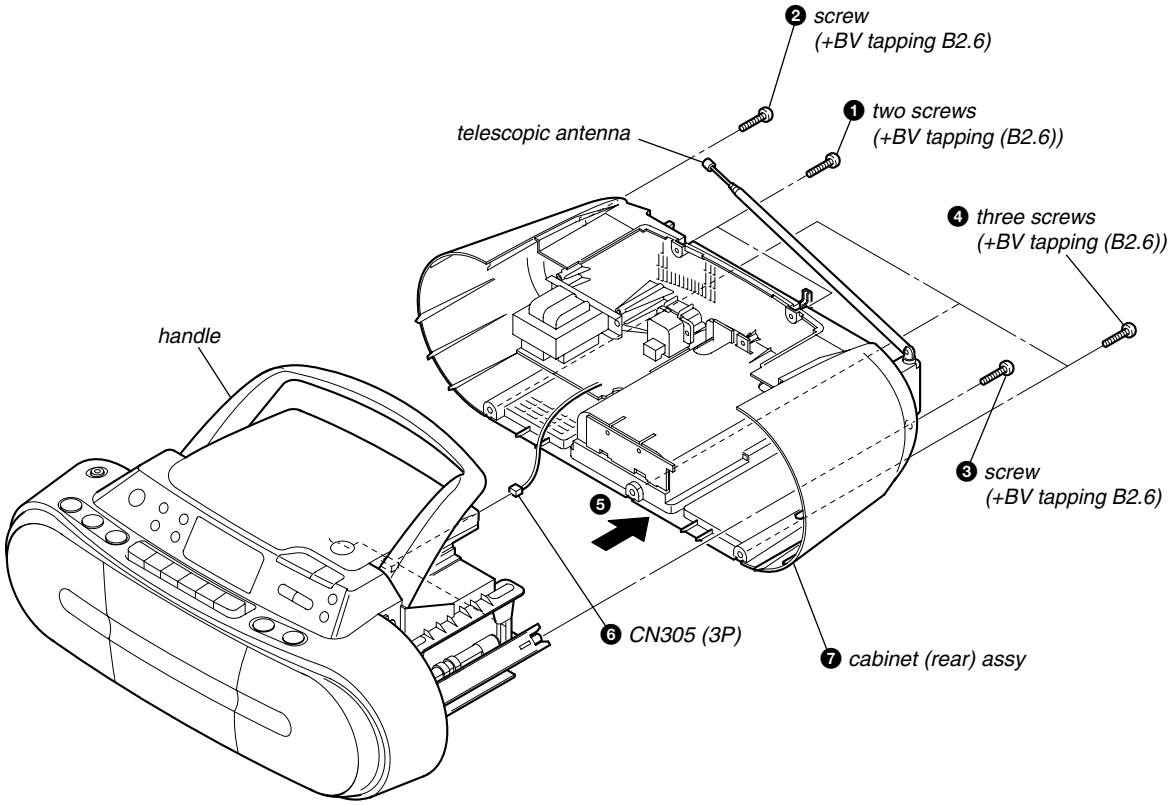
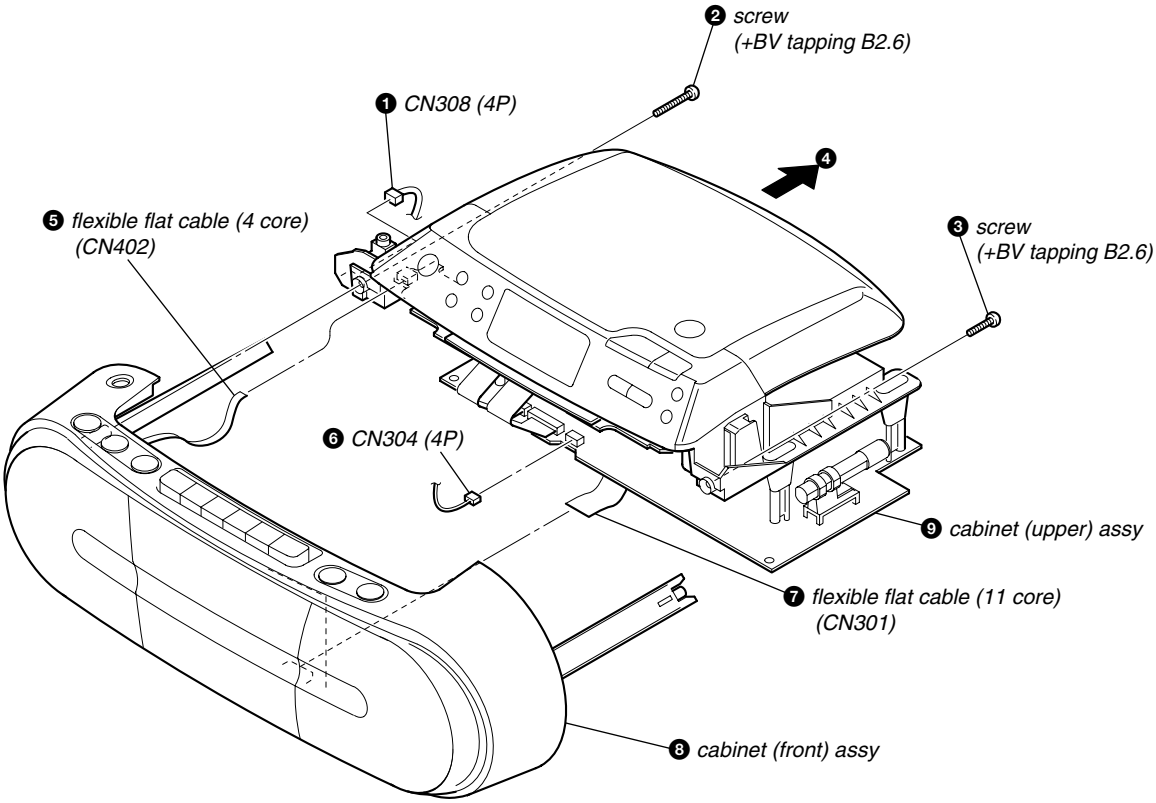
3-8. CD LID (Page 10)
3-5. CD MOTOR BOARD (Page 9)
3-6. OPTICAL PICK-UP (Page 9)

Note: Follow the disassembly procedure in the numerical order given.

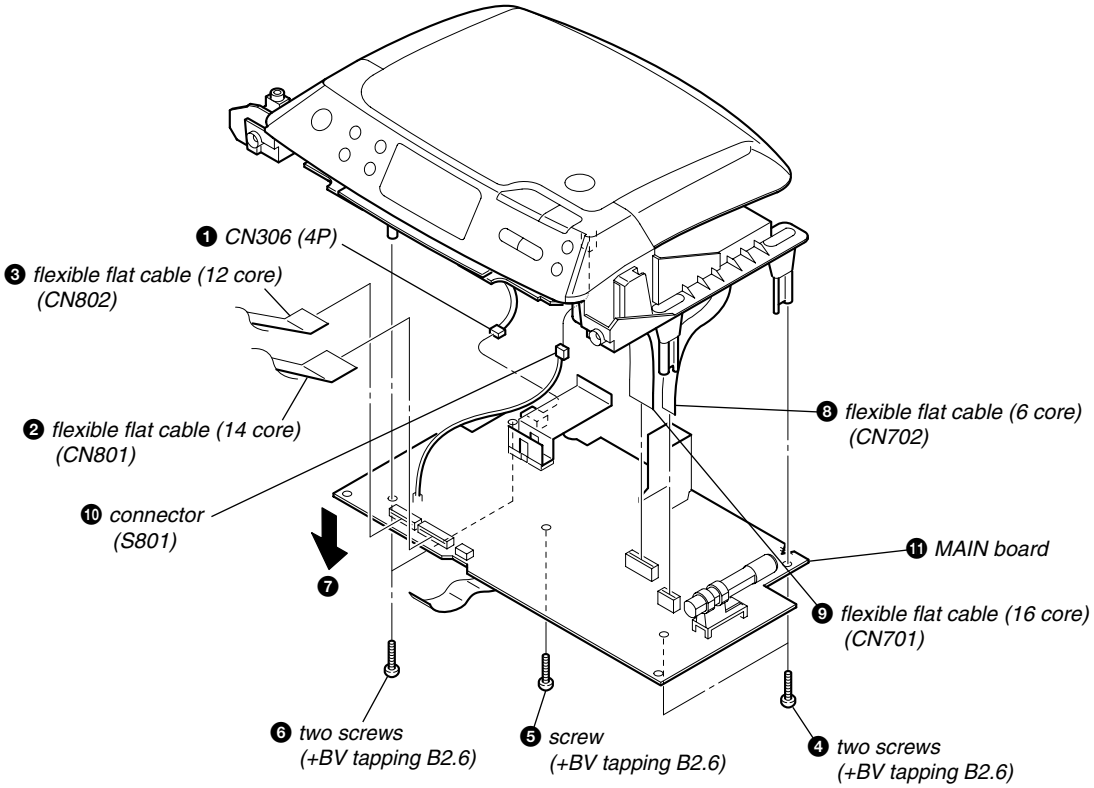
3-1. CABINET (REAR) ASSY



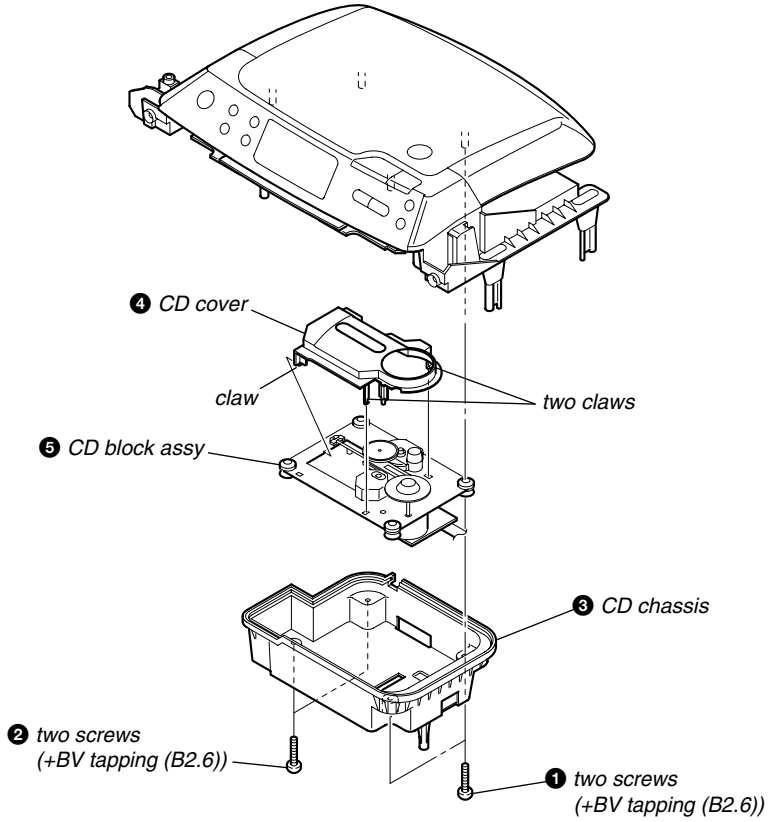
3-2. CABINET (FRONT) ASSY, CABINET (UPPER) ASSY



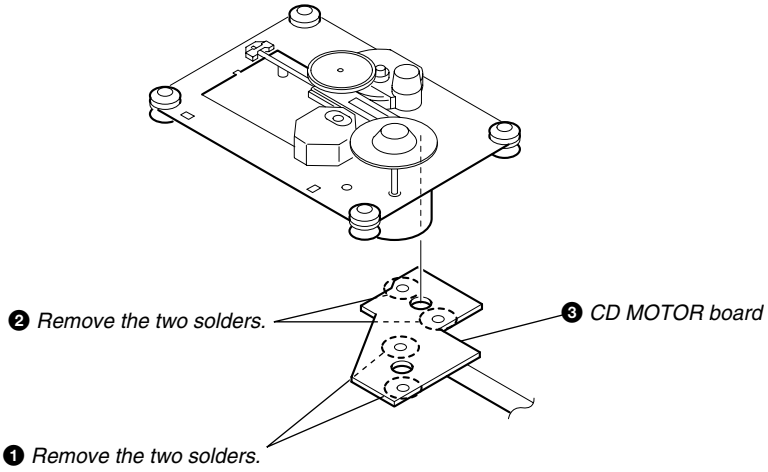
3-3. MAIN BOARD


❶ CN306 (4P)
❸ flexible flat cable (12 core) (CN802)
❷ flexible flat cable (14 core) (CN801)
❿ connector (S801)
❼
❽ flexible flat cable (6 core) (CN702)
⓫ MAIN board
❾ flexible flat cable (16 core) (CN701)
❻ two screws (+BV tapping B2.6)
❺ screw (+BV tapping B2.6)
❹ two screws (+BV tapping B2.6)

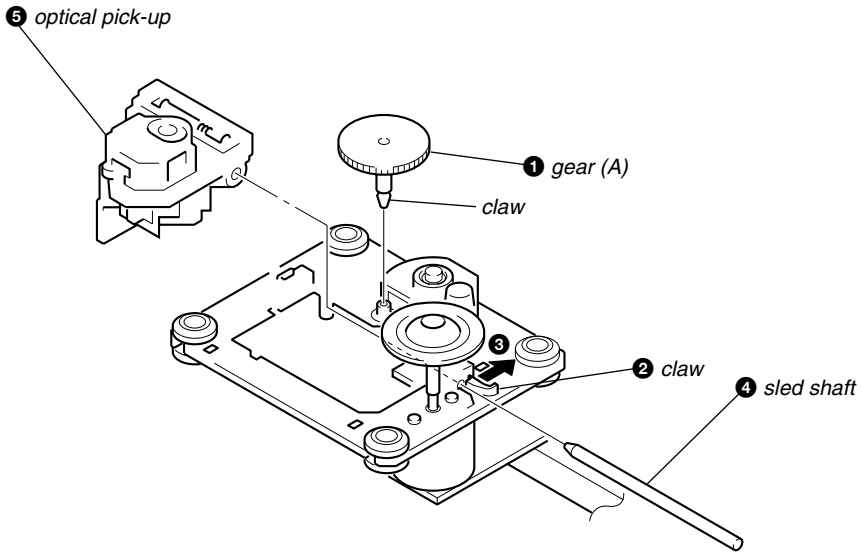
3-4. CD BLOCK ASSY



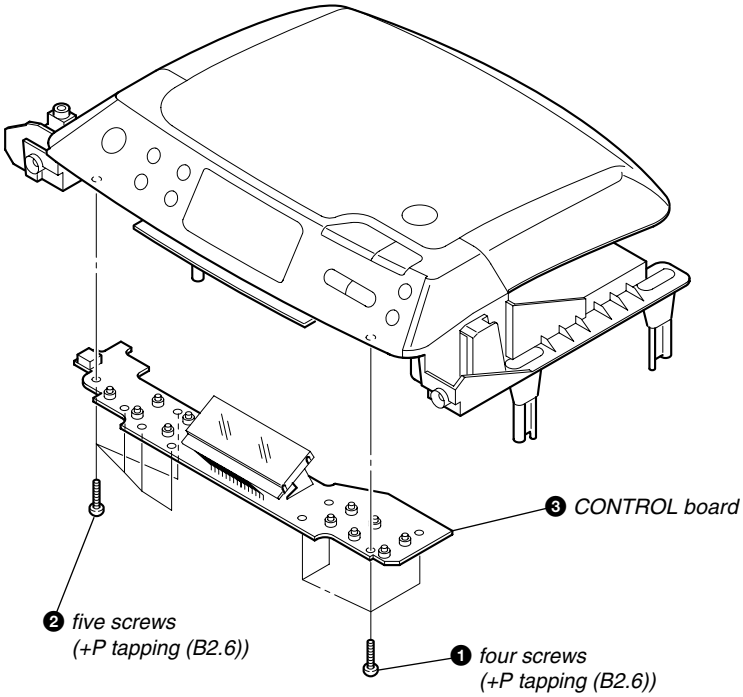
3-5. CD MOTOR BOARD



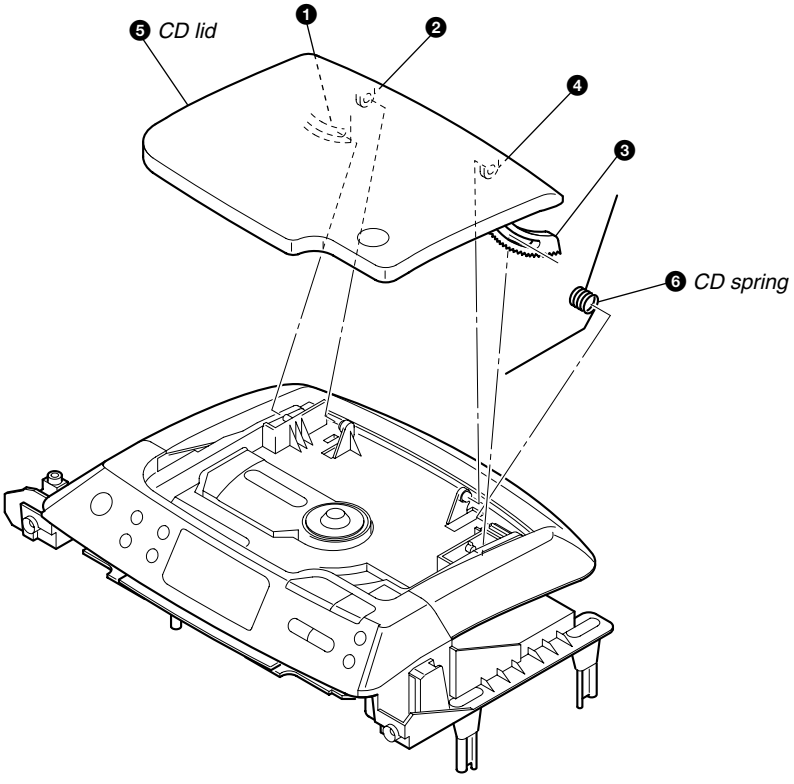
3-6. OPTICAL PICK-UP



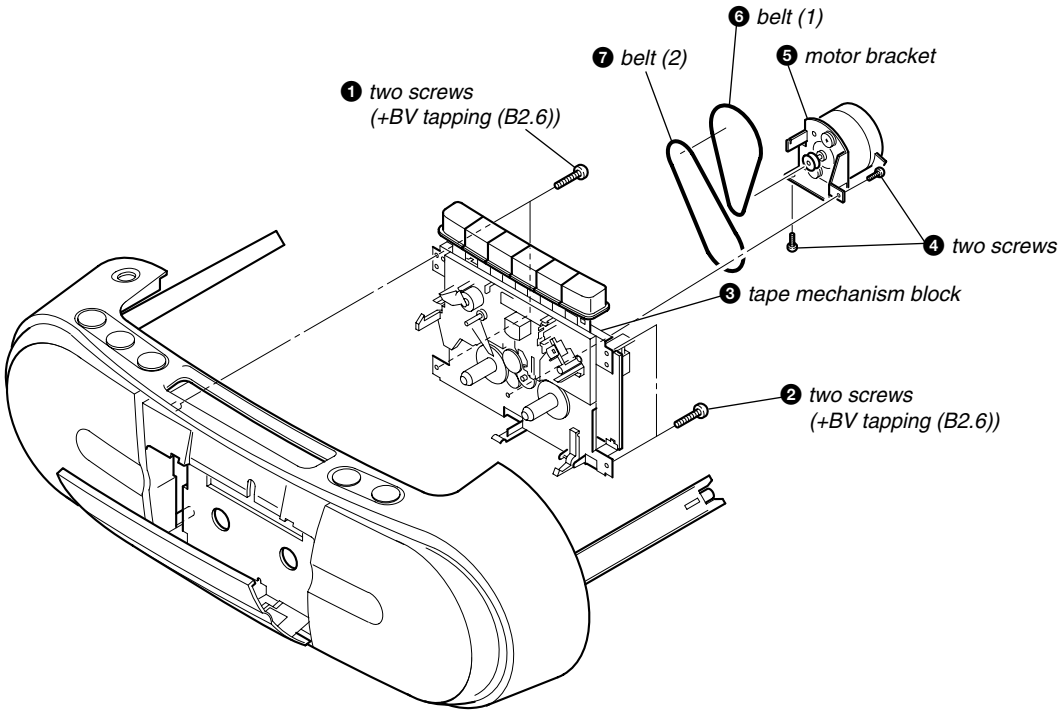
3-7. CONTROL BOARD



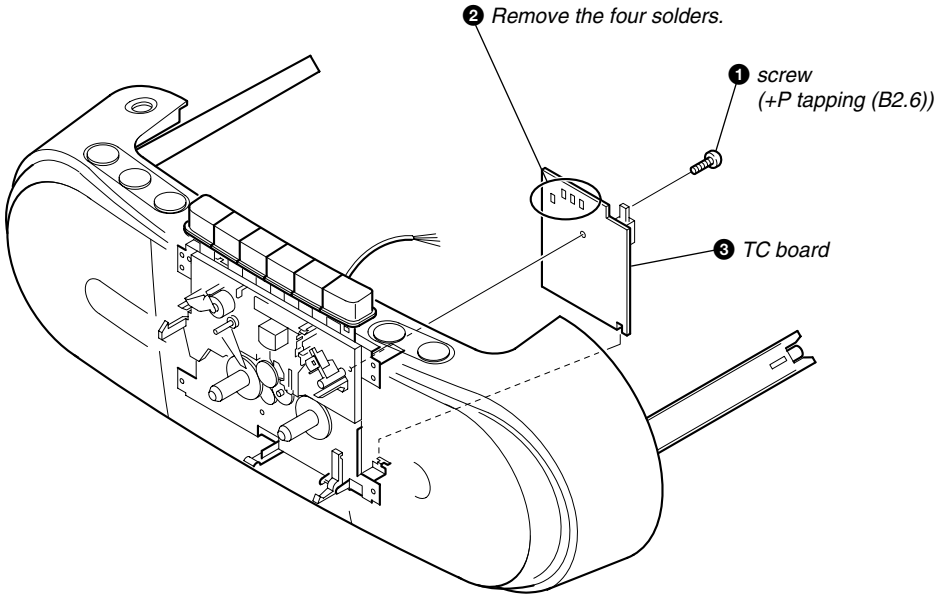
3-8. CD LID



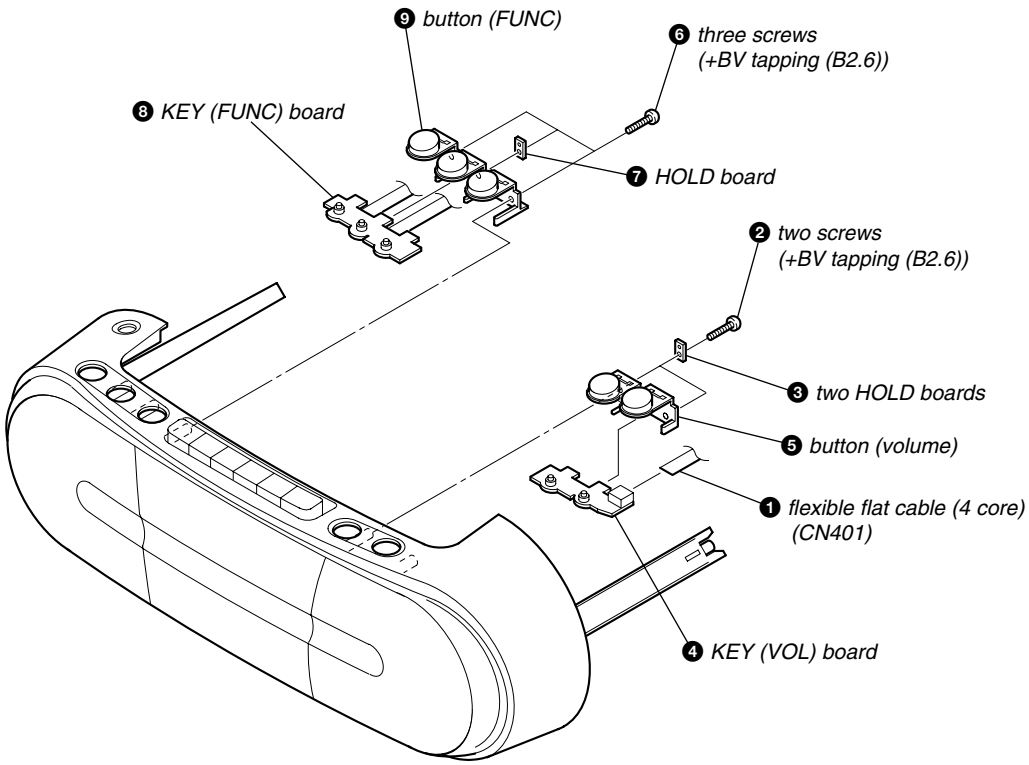
3-9. TAPE MECHANISM BLOCK, BELT (1), BELT (2)



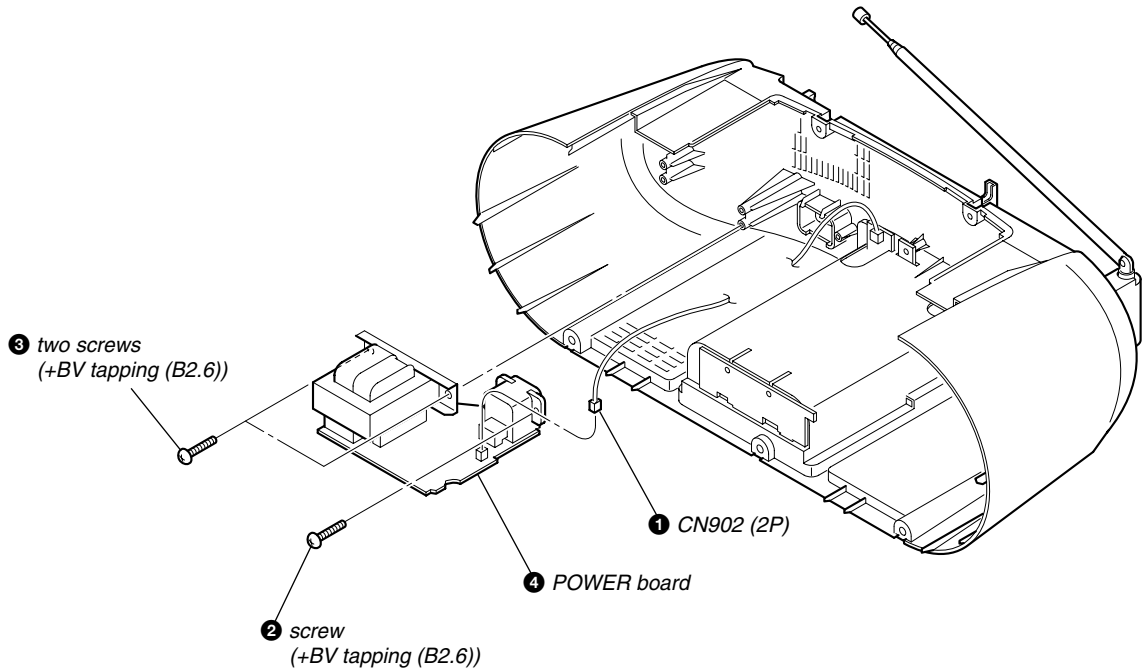
3-10. TC BOARD



3-11. KEY (FUNC) BOARD, KEY (VOL) BOARD



3-12. POWER BOARD



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head, erase head, capstan, pinch roller, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the rated power supply voltage (9V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.95 – 6.86 mN • m (30 – 70 g • cm) (0.42 – 0.97 oz • inch)
FWD Back Tension	CQ-102C	0.15 – 0.53 mN • m (1.5 – 5.5 g • cm) (0.021 – 0.076 oz • inch)
FF	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)
REW	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)

Tape Tension Measurement

Mode	Tension meter	Meter reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

TAPE SECTION **0 dB = 0.775 V**

• Standard Output Level

Output terminal	HP OUT
load impedance	32 Ω
output signal level	0.25 V (–10 dB)

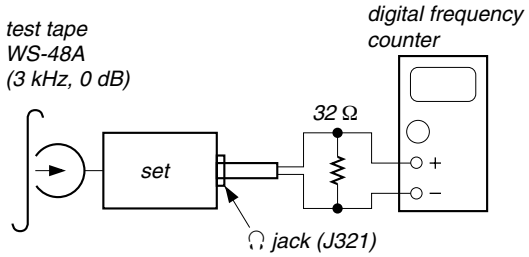
• Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment

Procedure:

Mode: playback



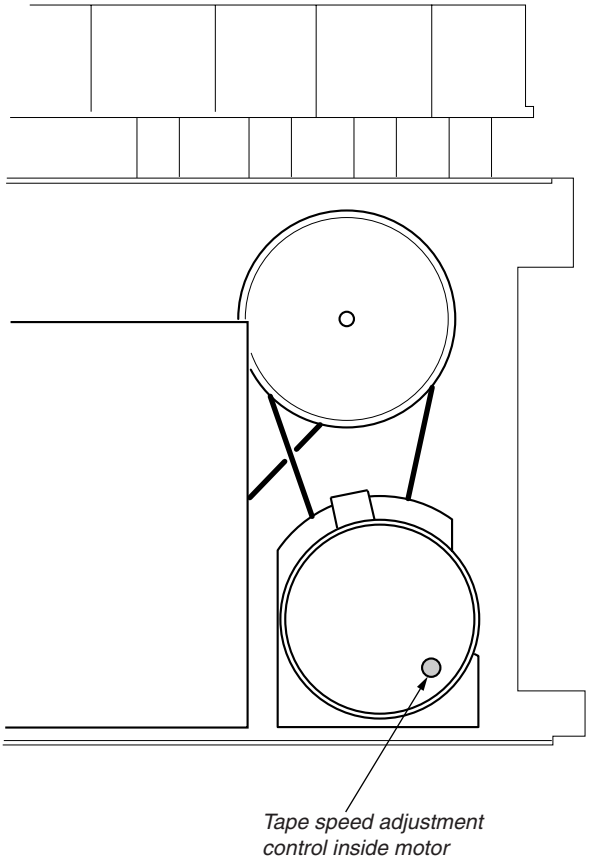
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,910 to 3,090 Hz

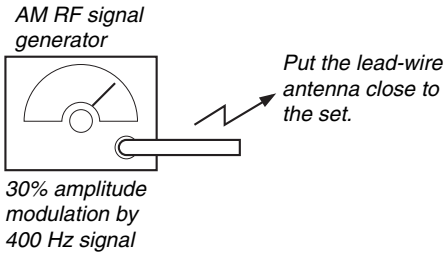
Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,910 to 3,090 Hz.

Adjustment Location:

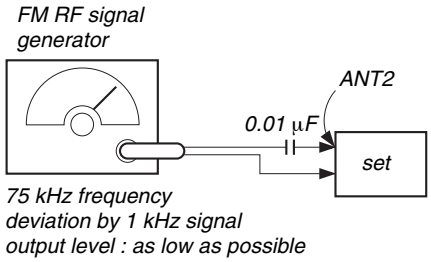


TUNER SECTION | 0 dB = 1 μV

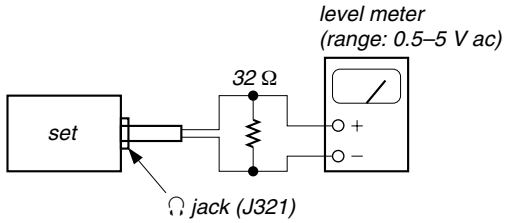
- **AM Section**
  Setting:
  RADIO BAND•AUTO PRESET button: AM



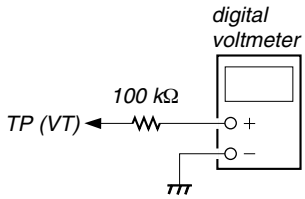
- **FM Section**
  Setting:
  RADIO BAND•AUTO PRESET button: FM



- **Connecting Level Meter (FM, AM)**



- **Connecting Digital Voltmeter (FM, AM)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T1
450 kHz

AM FREQUENCY COVERAGE CHECK (CND, E92, MX)		
Frequency Display	530 kHz	1,710 kHz
Reading on Digital voltmeter	0.8 ± 0.05 V	5.3 ± 0.7 V
Adjustment Part	L3	<confirmation>

AM FREQUENCY COVERAGE CHECK (EXCEPT CND, E92, MX)		
Frequency Display	531 kHz	1,611 kHz
Reading on Digital voltmeter	0.8 ± 0.05 V	4.8 ± 0.7 V
Adjustment Part	L3	<confirmation>

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
ANT1	CT3
621 kHz	1,404 kHz

FM IF ADJUSTMENT
Adjust for a maximum reading on level meter.
L6
10.7 MHz

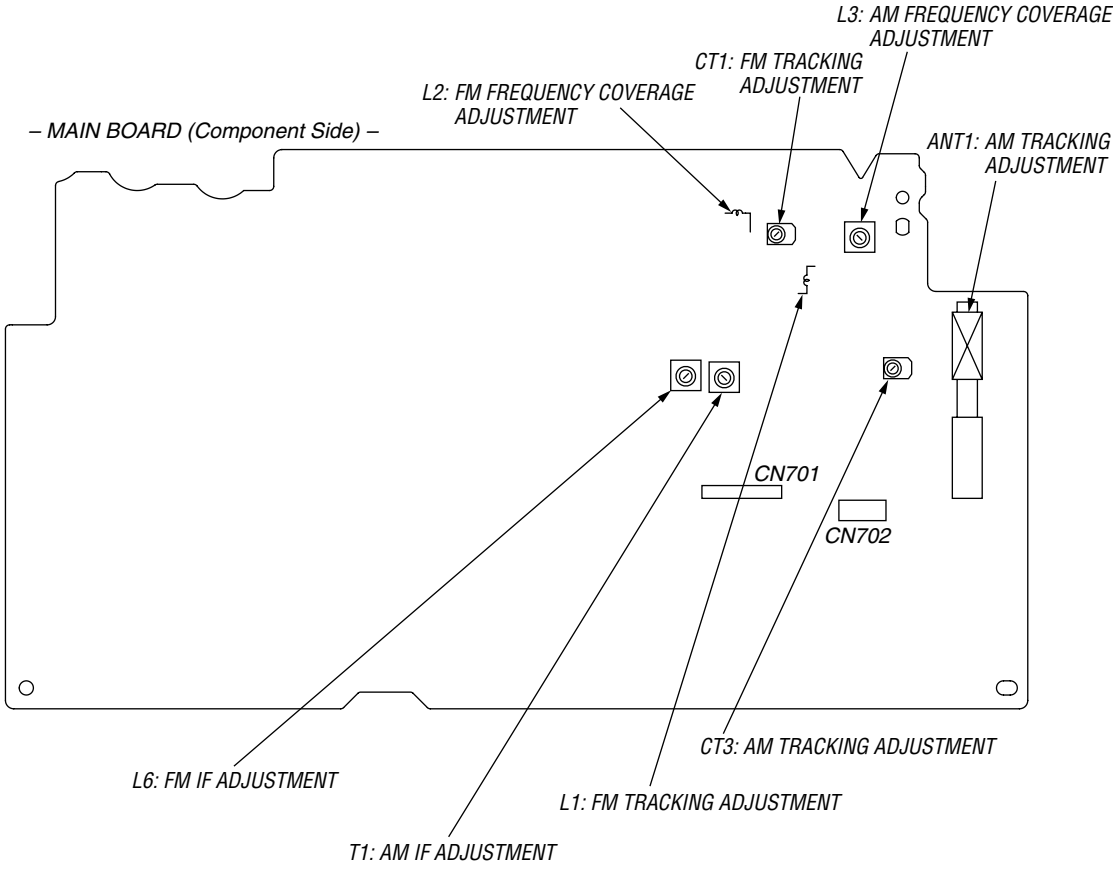
FM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.5 ± 0.3 V	3.0 ± 0.2 V
Adjustment Part	<confirmation>	L2

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	CT1
87.5 MHz	108 MHz

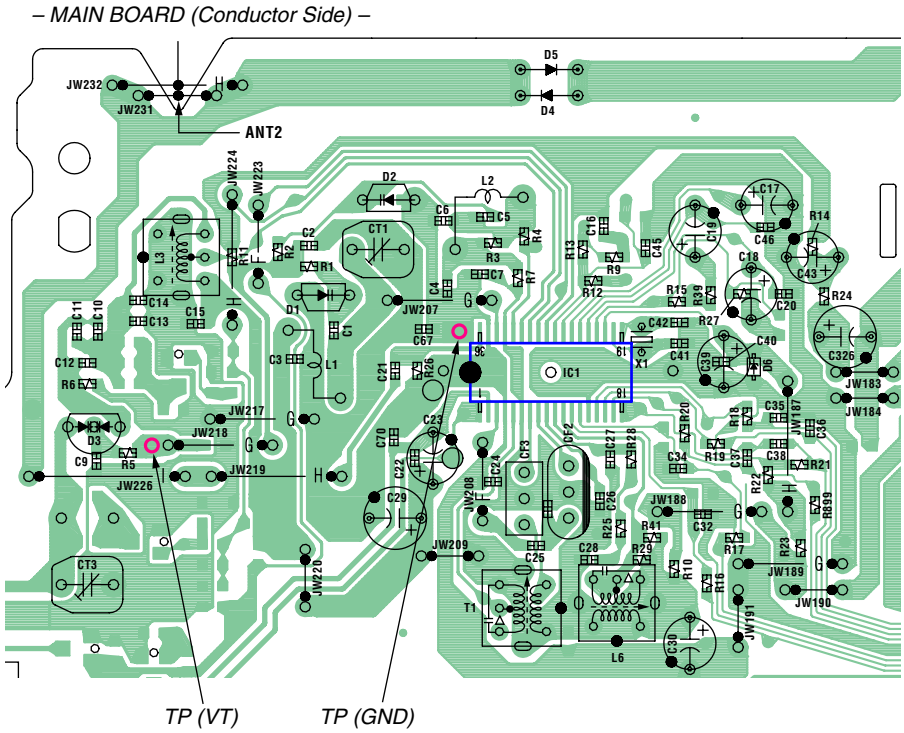
Adjustment Location: See page 15.

- Abbreviation
  CND : Canadian model
  E92 : AC 120V area in E model
  MX : Mexican model

Adjustment Location:



Test Point:



CD SECTION

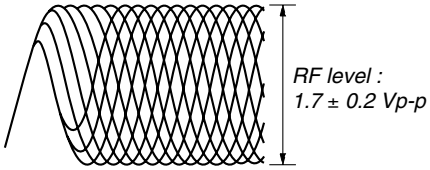
CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

FOCUS BIAS CHECK

1. Connect the oscilloscope between IC701 pin ㊷ and pin ④ (or TP (RF) and TP (VREF)).
2. Insert the disc (PATD-012 (Tr 15)). (Part No. : 4-225-203-01)
3. Press the ► ❚❚ (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

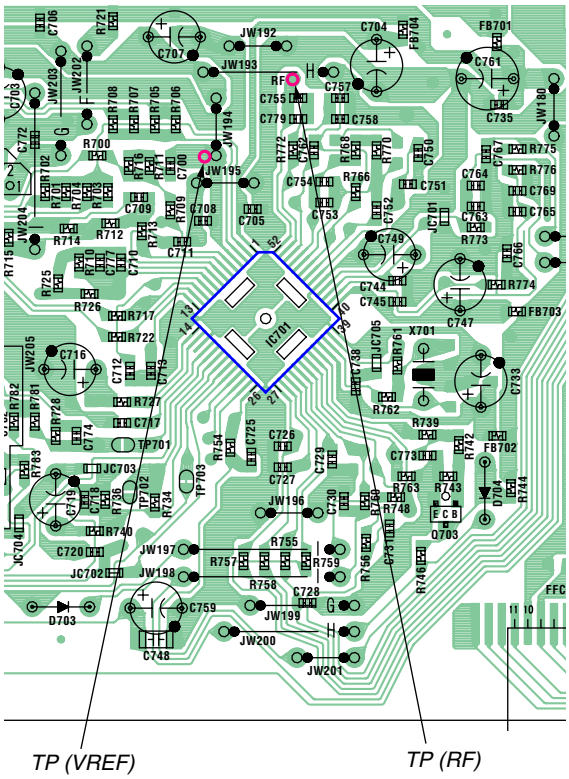
VOLT/DIV : 50 mV (10 : 1 probe in use)
TIME/DIV : 500 nS



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

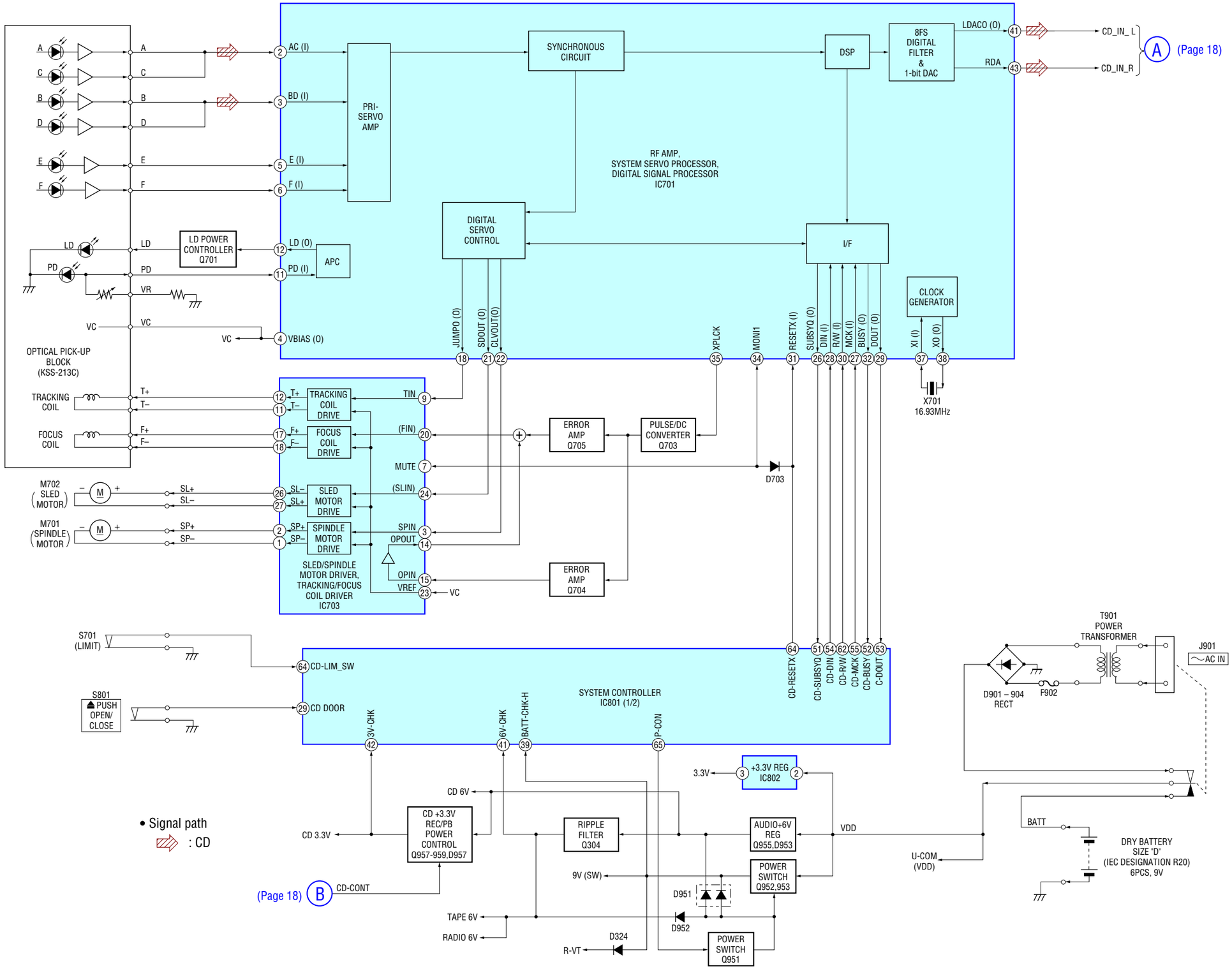
Test Point:

– MAIN BOARD (Conductor Side) –

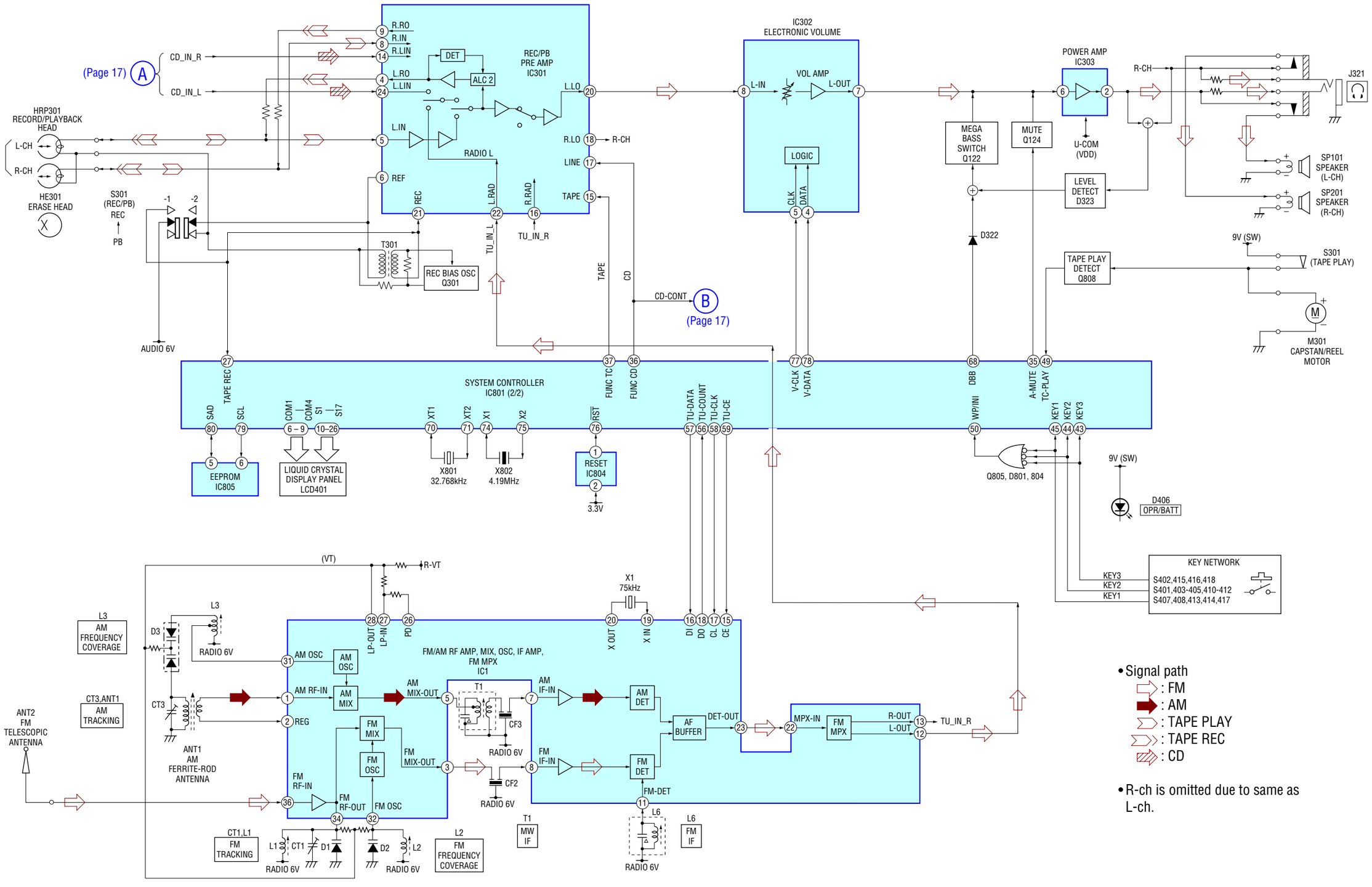


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM — CD SECTION —



6-2. BLOCK DIAGRAM — MAIN SECTION —



- Signal path
  - : FM
  - : AM
  - : TAPE PLAY
  - : TAPE REC
  - : CD
- R-ch is omitted due to same as L-ch.

• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)**

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

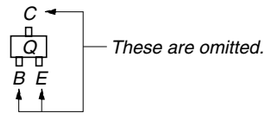
- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  – MAIN (1/4) Board –
  no mark : CD PLAY
  – MAIN (2/4) Board –
  no mark : FM
  ( ) : AM
  – MAIN (3/4), (4/4) and Other Boards –
  no mark : FM
  ( ) : PB
  < > : REC
  [ ] : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇨ : PB
  ⇨ : REC
  ⇨ : CD PLAY
- Abbreviation
  CND : Canadian model.
  E41 : AC 230V area in E model.
  E92 : AC 120V area in E model.
  AUS : Australian model.
  AR : Argentina model.
  CET : East European & Russian model.
  IT : Italian model.
  KR : Korea model.
  MX : Mexican model.
  SP : Singapore model.
  TH : Thai model.
  TW : Taiwan model.

For printed wiring boards.

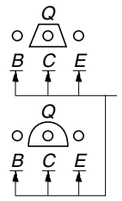
Note:

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ⊡← : indicates side identified with part number.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.



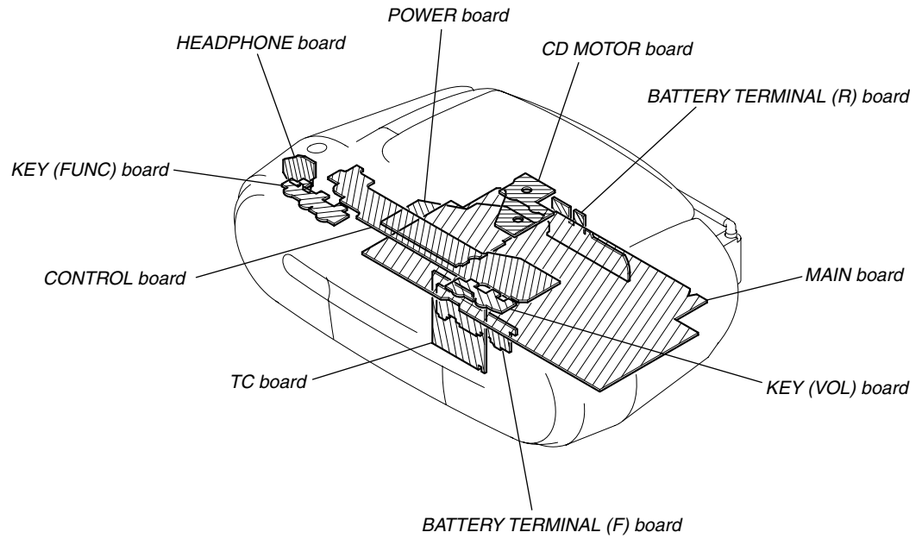
These are omitted.



These are omitted.

- Abbreviation
  CND : Canadian model.
  E41 : AC 230V area in E model.
  E92 : AC 120V area in E model.
  AUS : Australian model.
  AR : Argentina model.
  CET : East European & Russian model.
  IT : Italian model.
  KR : Korea model.
  MX : Mexican model.
  SP : Singapore model.
  TH : Thai model.
  TW : Taiwan model.

6-3. CIRCUIT BOARDS LOCATION



• Waveforms

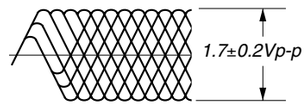
— MAIN Board —

① IC701 ⑨ (FEO (O))
– CD PLAY –

Approx. 100mVp-p

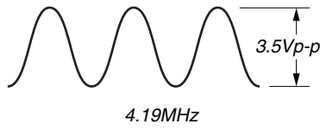
100mV/div, 5msec/div

④ IC701 ㊷ (EQO (O))
– CD PLAY –



50mV/div, 0.5 μsec/div

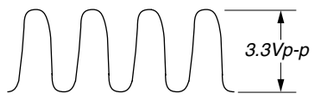
⑦ IC801 ㉕ (X2)



4.19MHz

1V/div, 0.1 μsec/div

② IC701 ㊳ (XO (O))
– CD PLAY –



16.93MHz

1V/div, 20nsec/div

⑤ IC1 ⑳ (X OUT)

75kHz

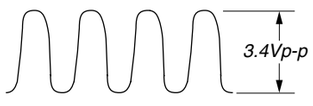
1V/div, 5 μsec/div

③ IC701 ㊽ (TEO (O))
– CD PLAY –

Approx. 100mVp-p

100mV/div, 5msec/div

⑥ IC801 ㉑ (XT2)

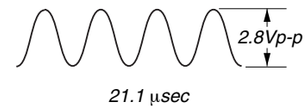


32.768kHz

1V/div, 10 μsec/div

— TC Board — (TAPE REC)

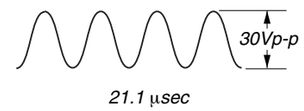
① Q301 ⓒ (REC)



21.1 μsec

1V/div, 10 μsec/div

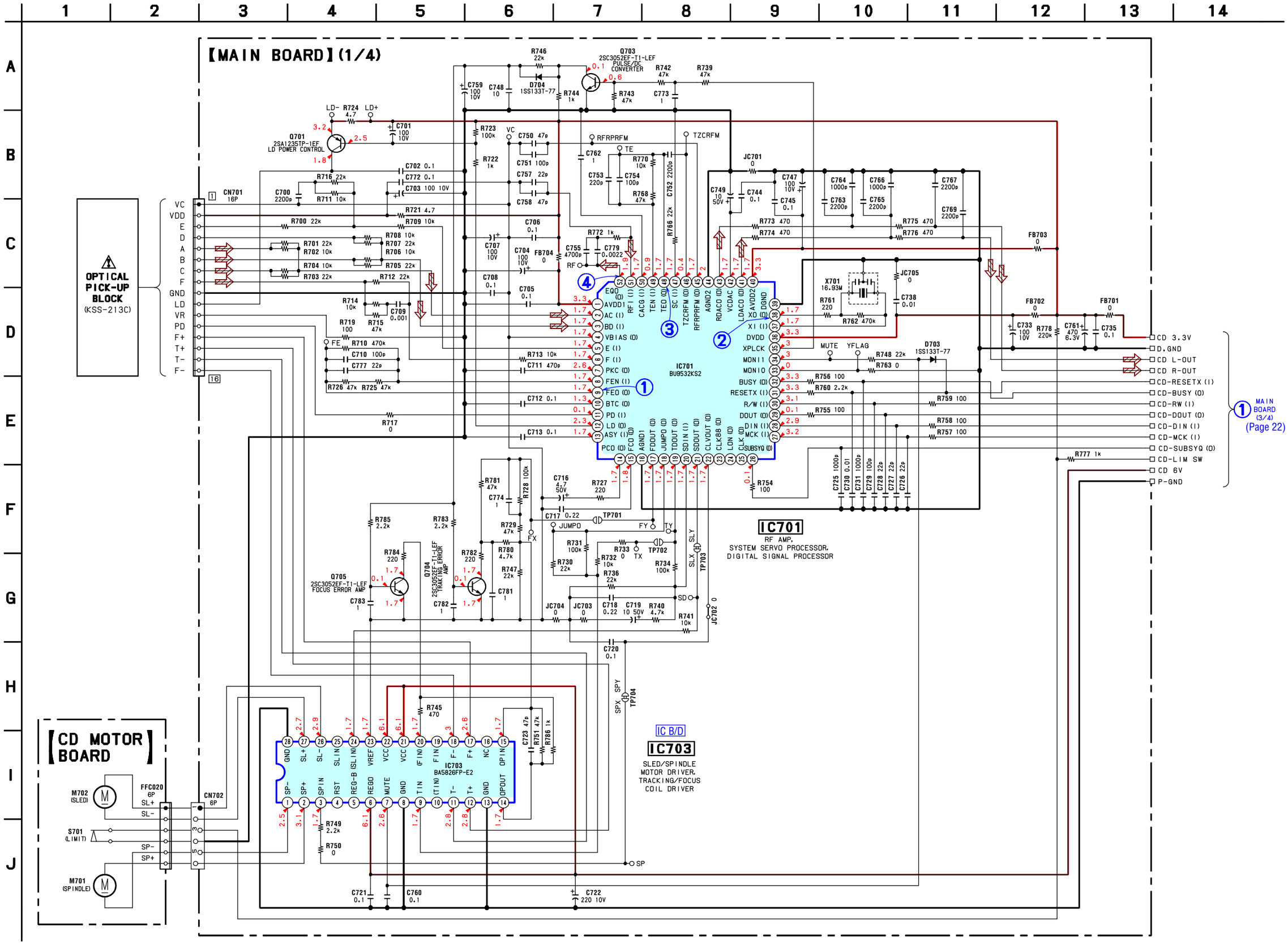
② HRP301 (YEL)



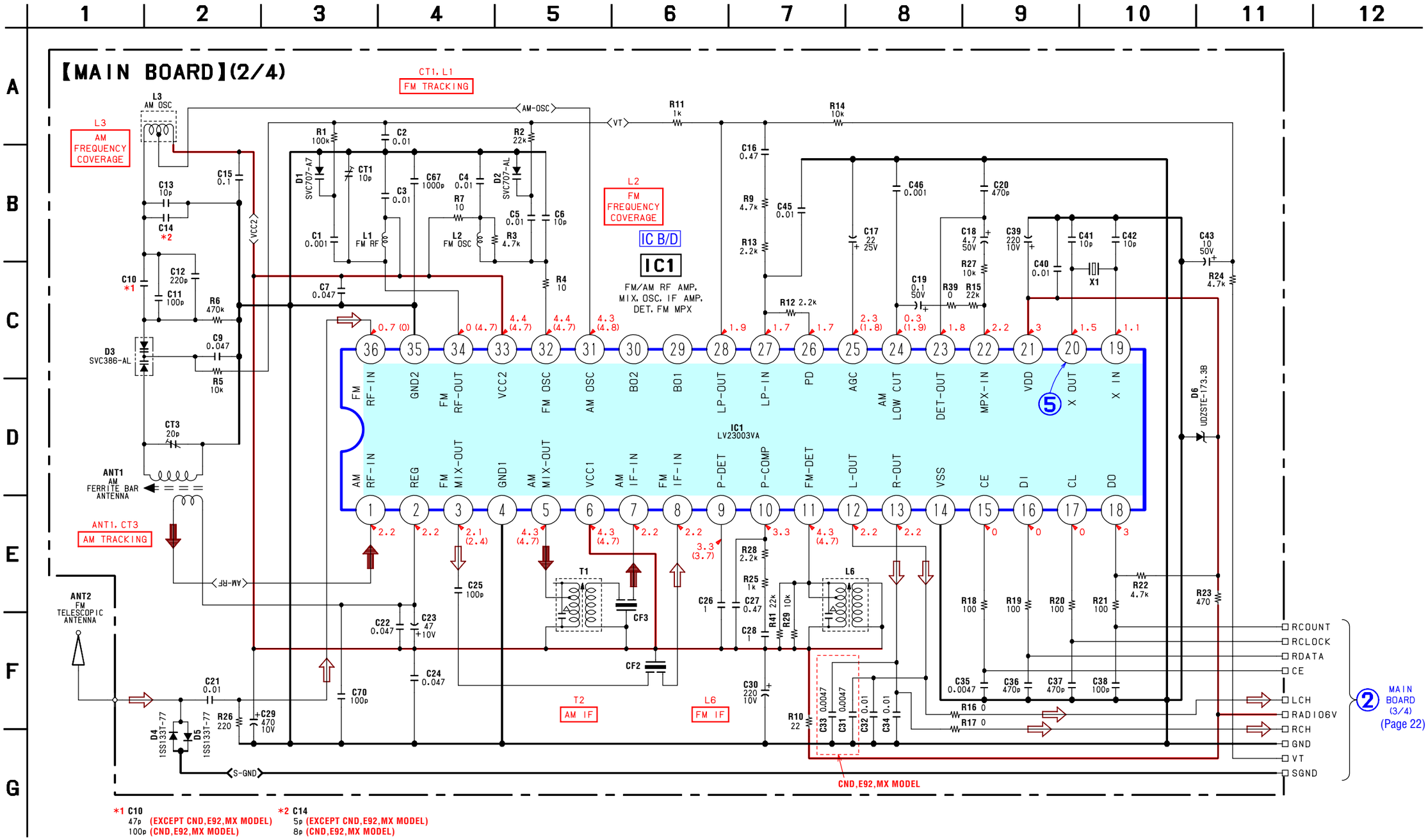
21.1 μsec

10V/div, 10 μsec/div

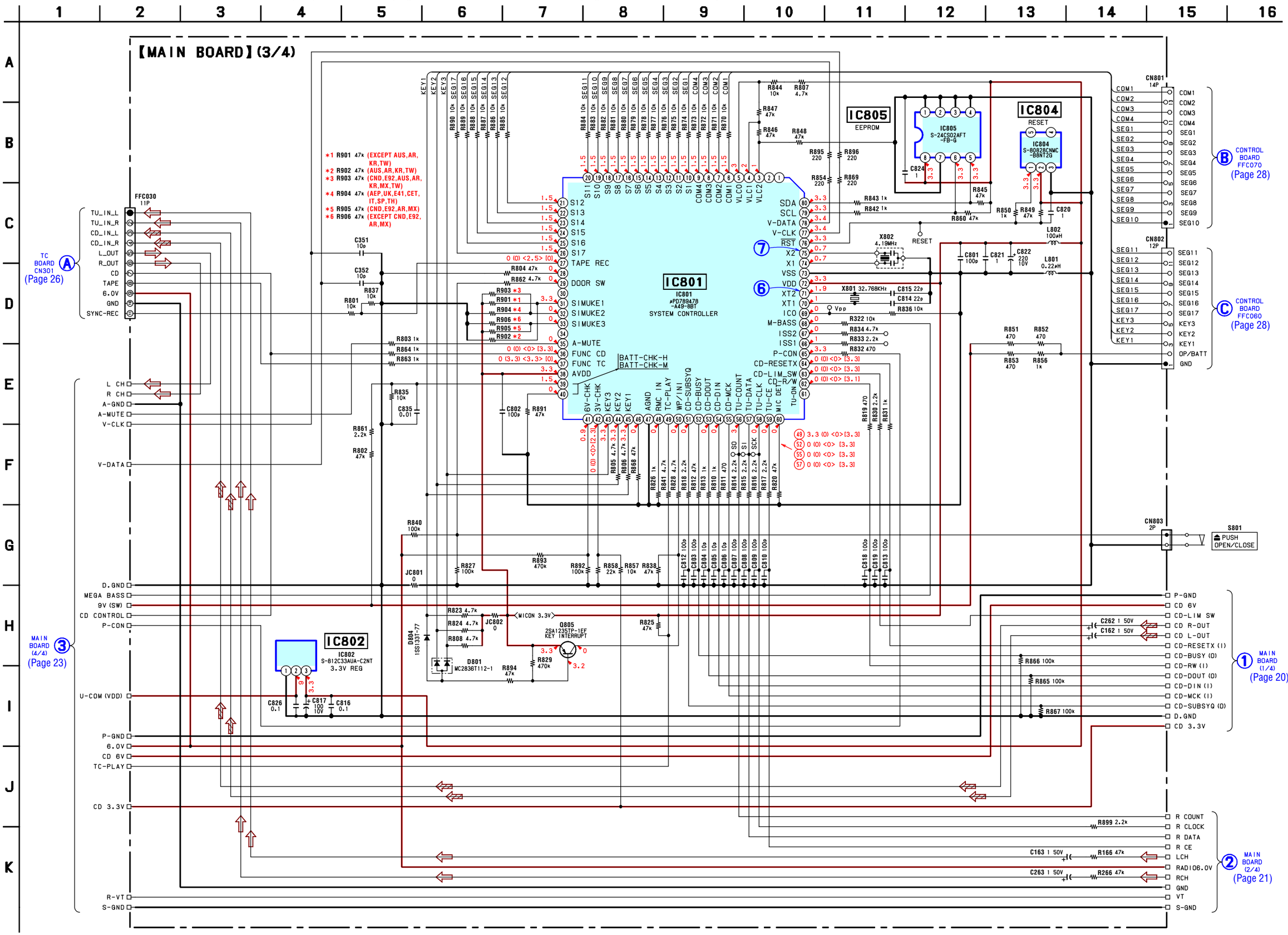
6-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 19 for Waveforms. • Refer to page 32 for IC Block Diagram. • Refer to page 34 for IC Pin Description of IC701.



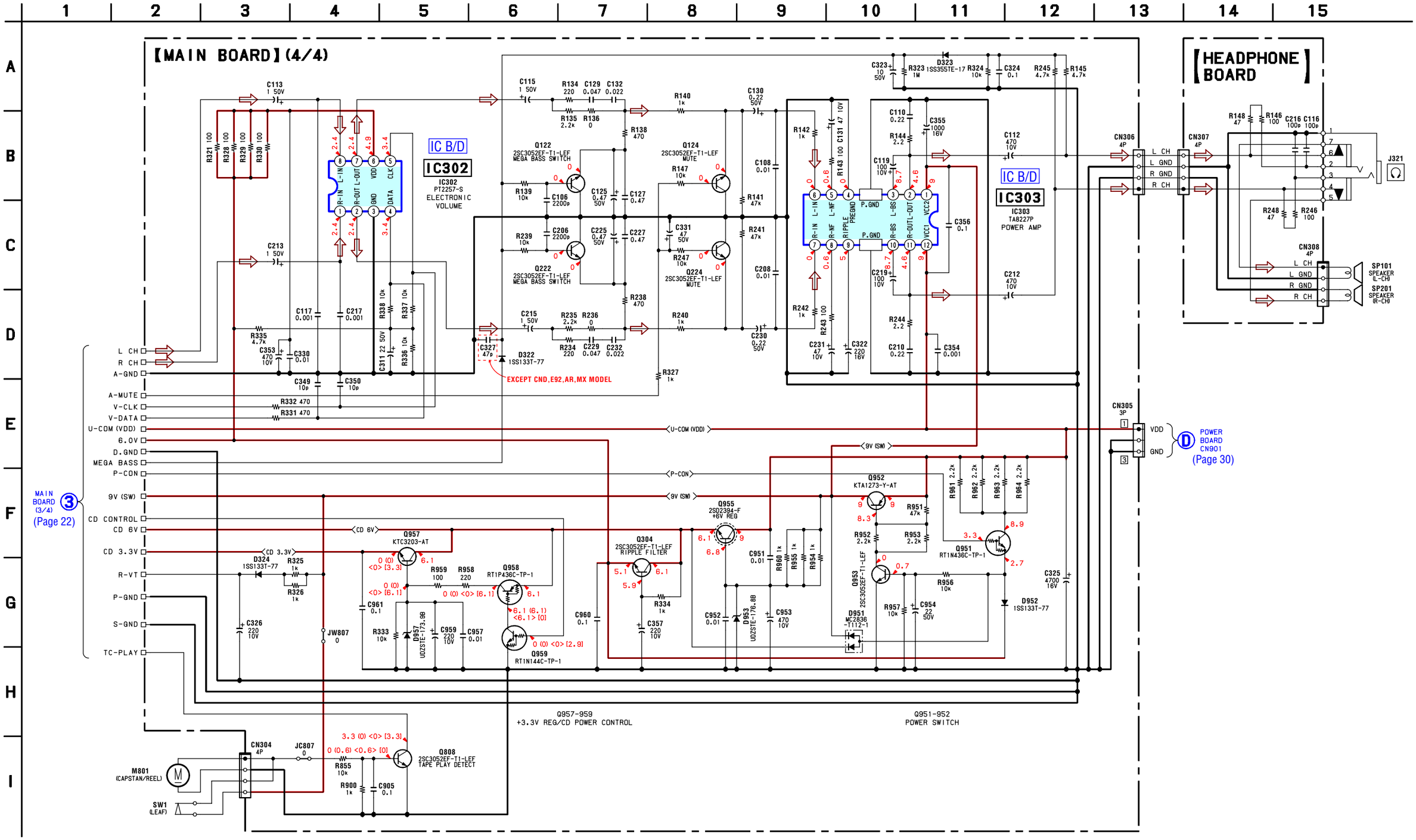
6-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 19 for Waveforms. • Refer to page 31 for IC Block Diagram.



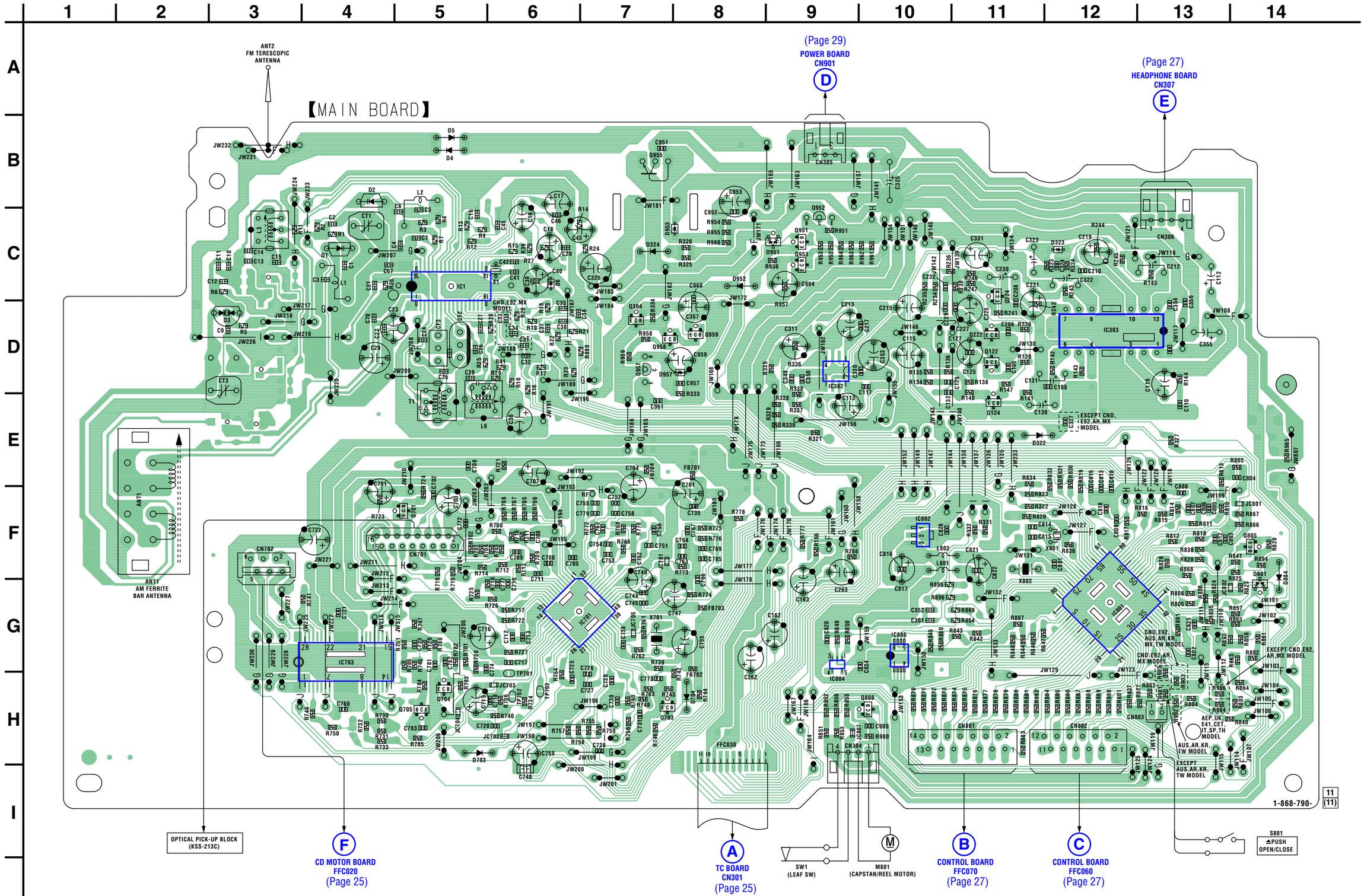
6-6. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) — • Refer to page 19 for Waveforms. • Refer to page 36 for IC Pin Description of IC801.



6-7. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 32 for IC Block Diagrams.



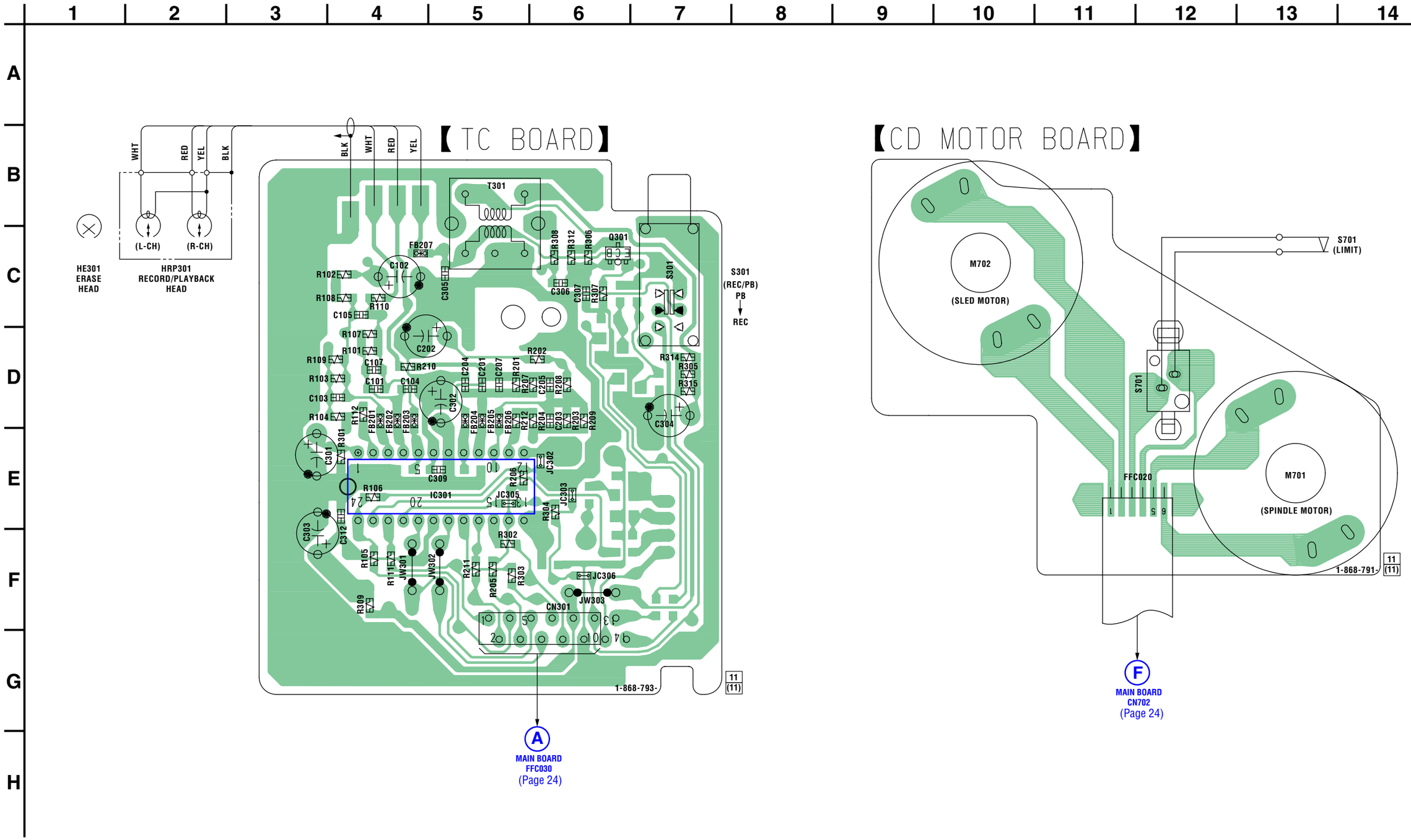
6-8. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder.



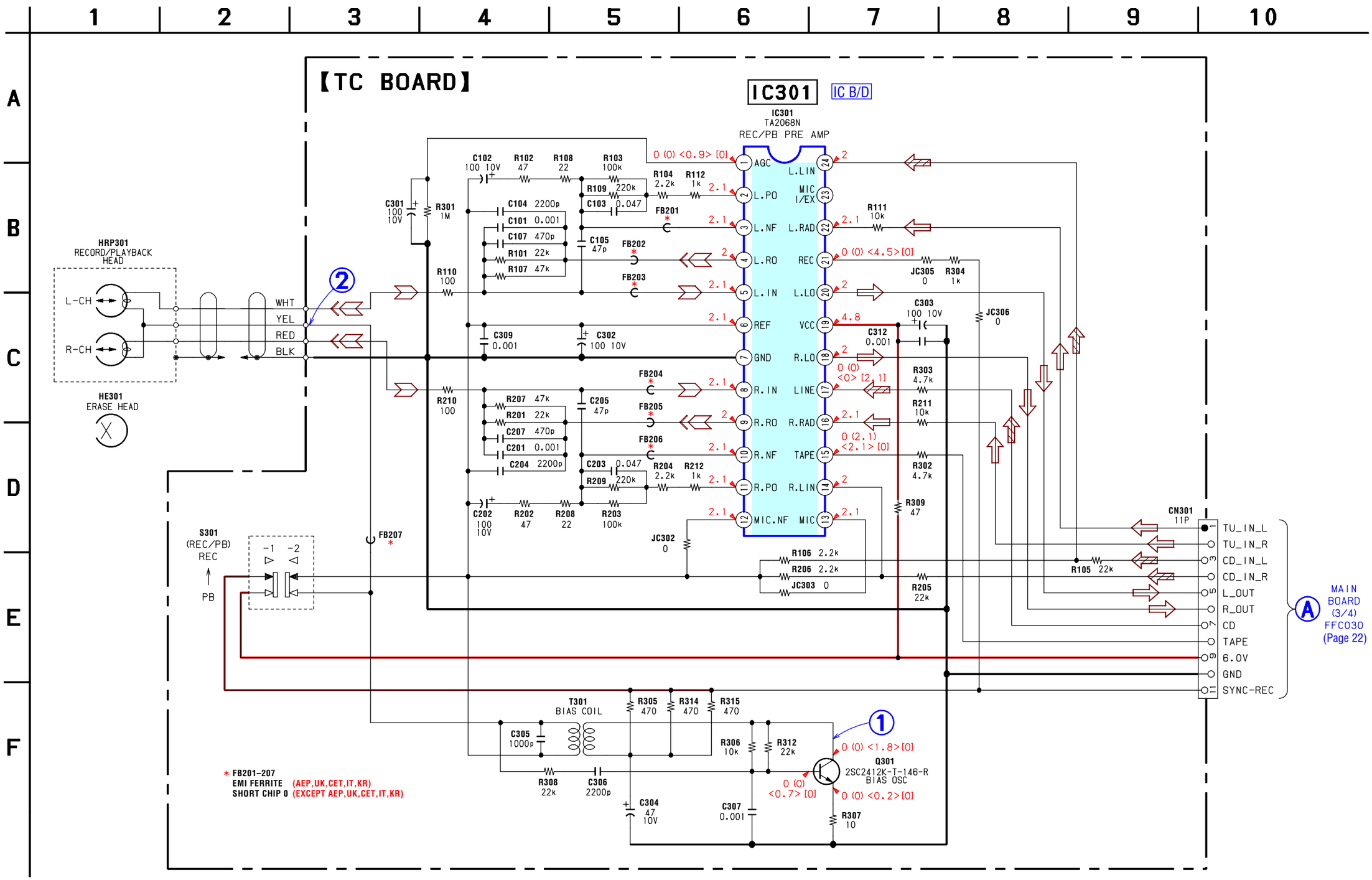
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	C-4	D324	C-7	D957	D-7	IC802	F-10	Q304	D-7	Q952	C-9
D2	B-4	D703	H-5			IC804	H-9	Q701	F-5	Q953	C-9
D3	D-3	D704	H-8	IC1	C-5	IC805	G-10	Q703	H-7	Q955	B-7
D4	B-5	D801	F-14	IC302	D-9			Q704	H-5	Q957	D-7
D5	B-5	D804	F-14	IC303	D-12	Q122	D-11	Q705	H-5	Q958	D-7
D6	C-6	D951	C-9	IC701	G-7	Q124	E-11	Q805	F-14	Q959	D-8
D322	E-11	D952	C-8	IC703	G-4	Q222	D-11	Q808	H-10		
D323	C-12	D953	C-7	IC801	G-12	Q224	C-11	Q951	C-9		

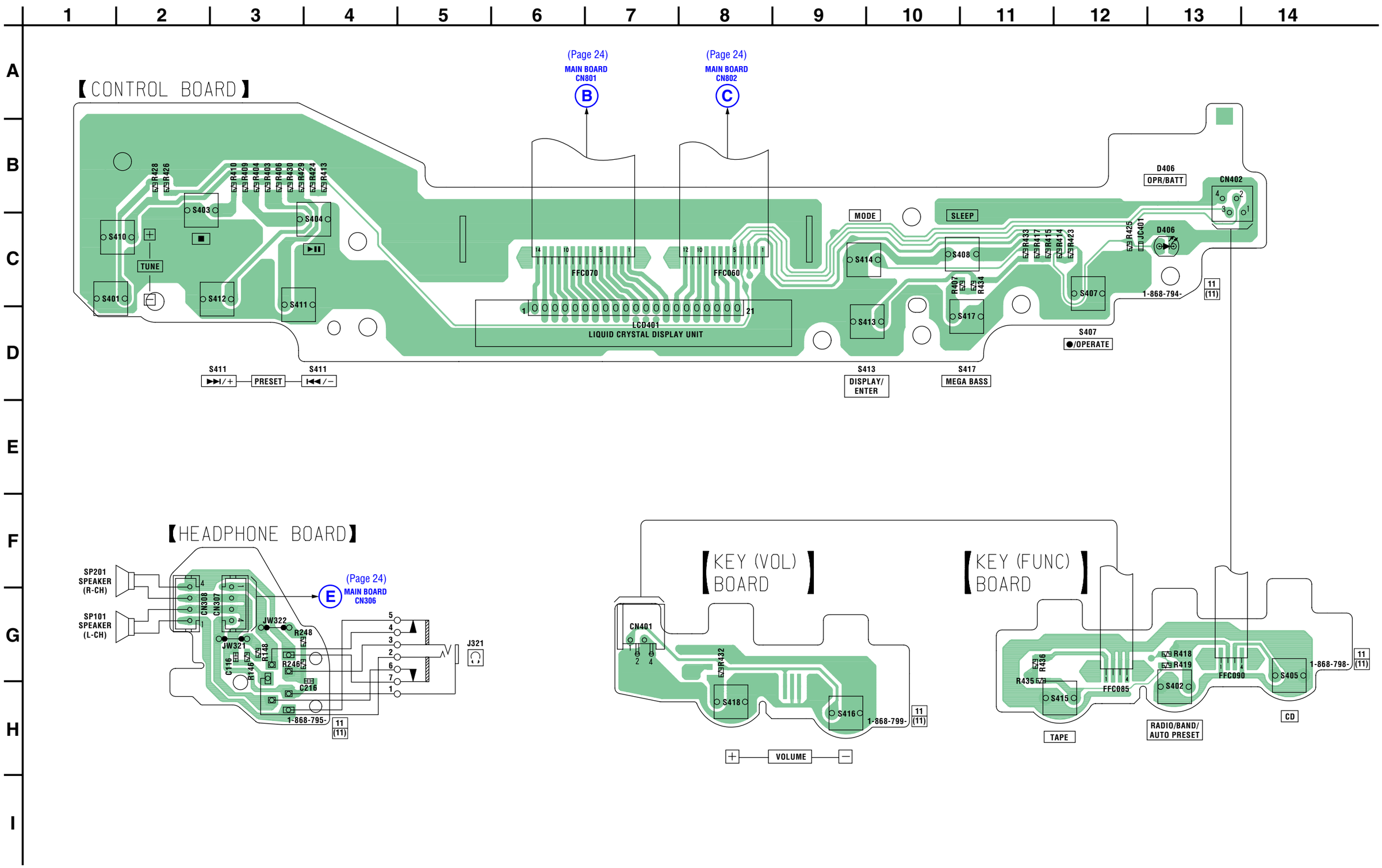
6-9. PRINTED WIRING BOARDS — TC SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder.



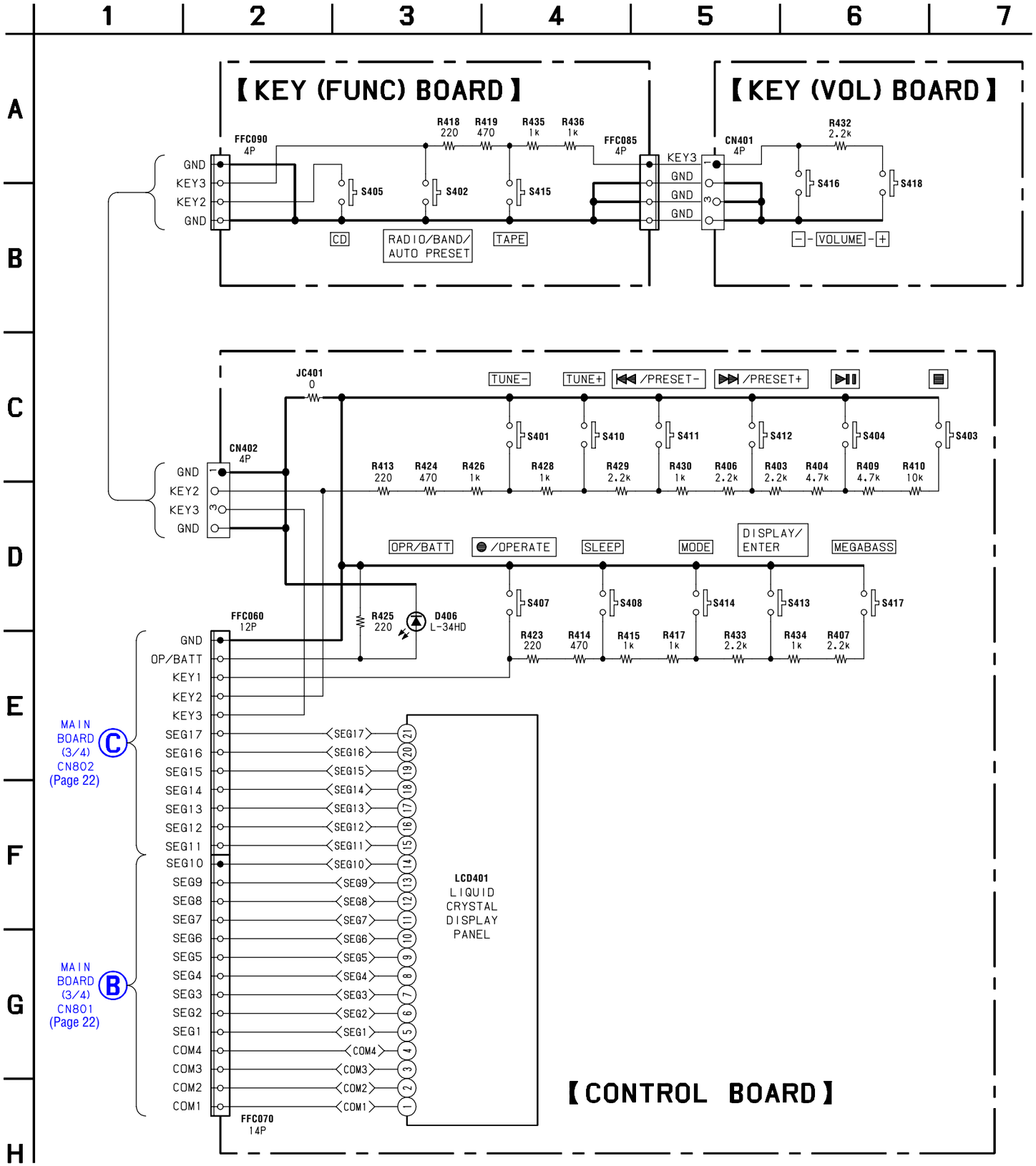
6-10. SCHEMATIC DIAGRAM — TC SECTION — • Refer to page 19 for Waveforms. • Refer to page 33 for IC Block Diagram.



6-11. PRINTED WIRING BOARDS — CONTROL SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder.

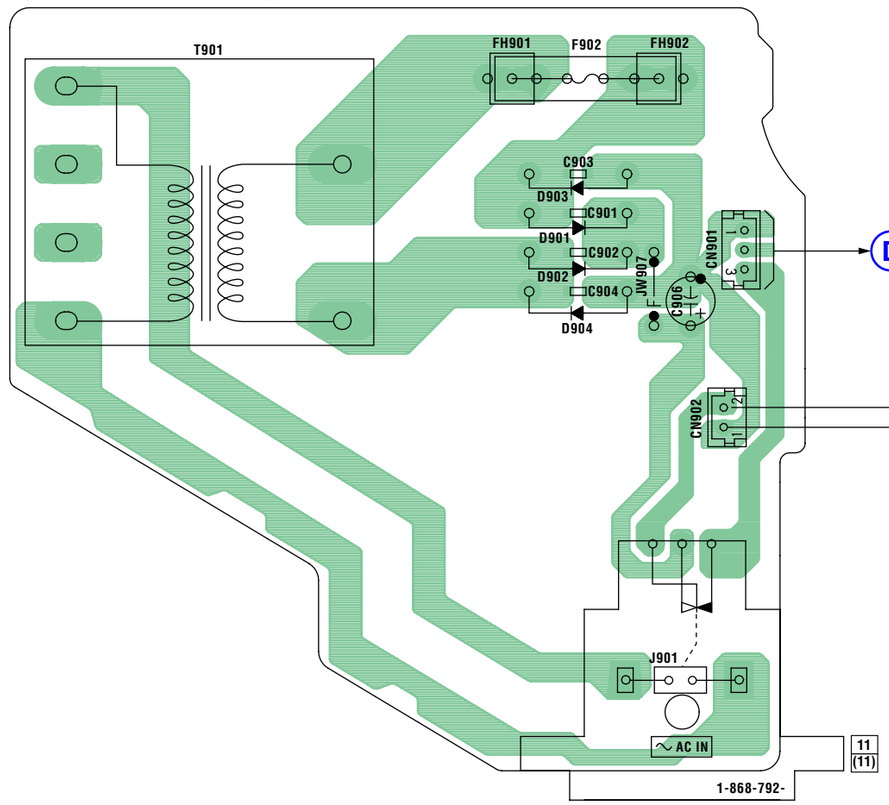


6-12. SCHEMATIC DIAGRAM — CONTROL SECTION —

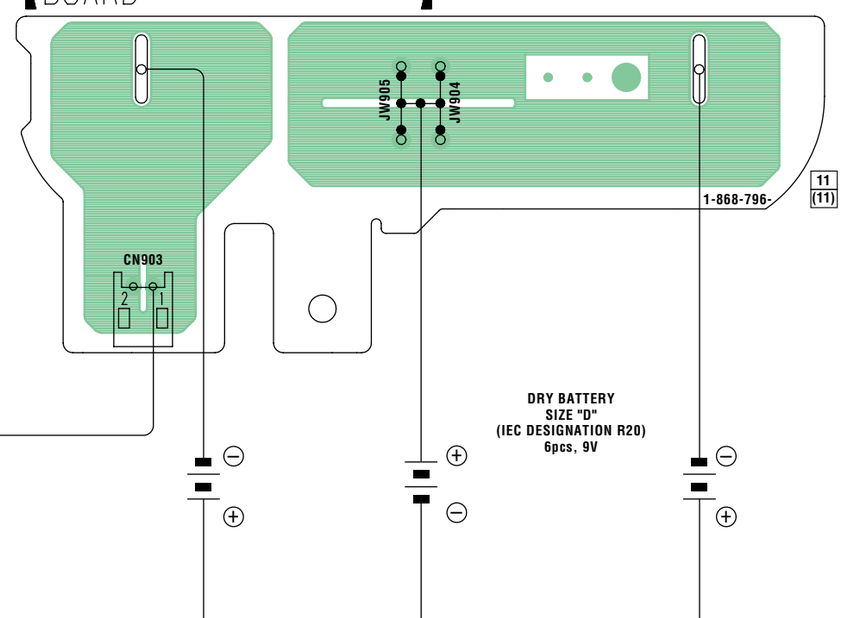


6-13. PRINTED WIRING BOARDS — POWER SUPPLY SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder.

【POWER BOARD】

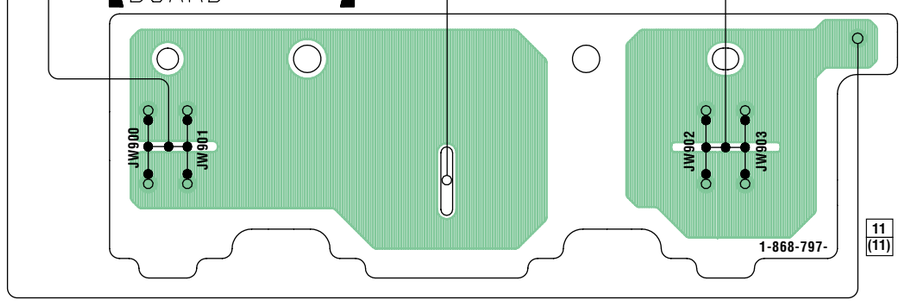


【BATTERY TERMINAL (F) BOARD】

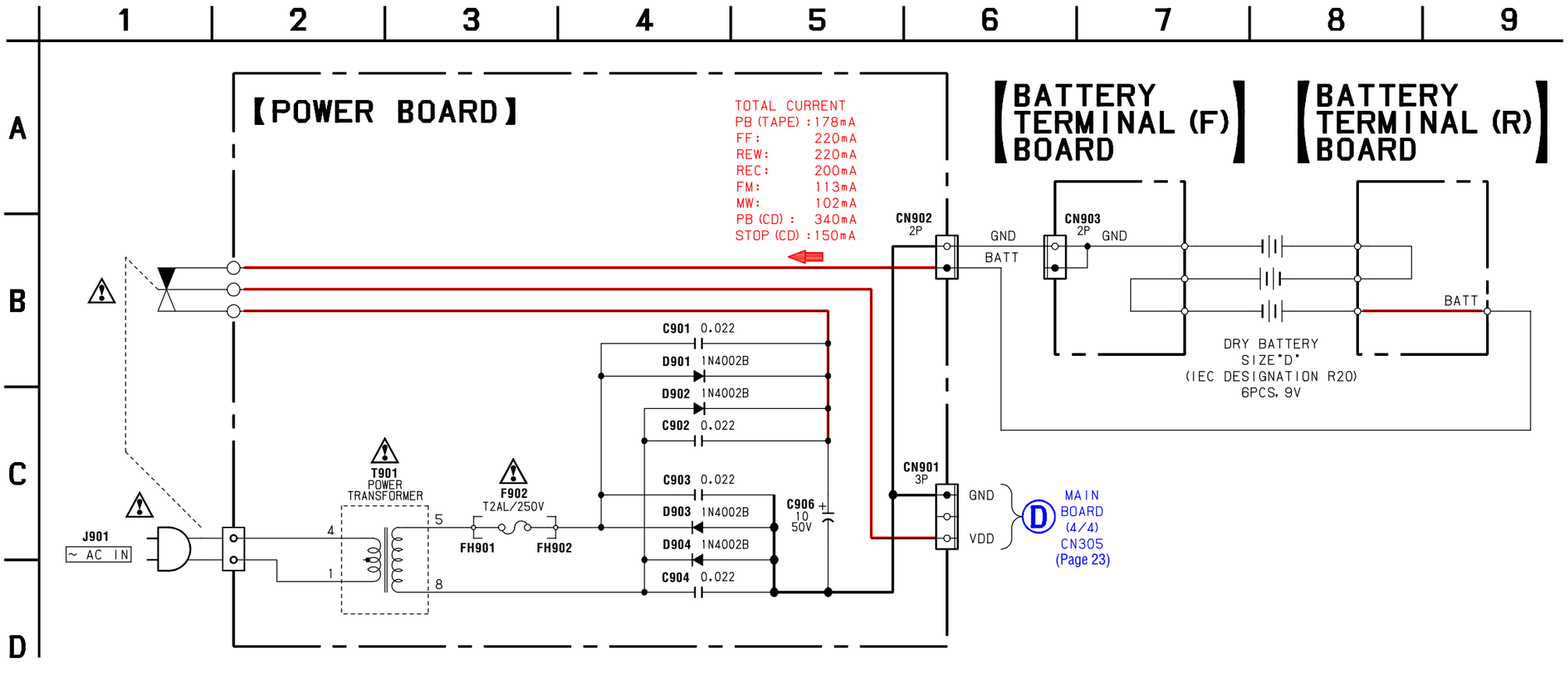


DRY BATTERY
SIZE "D"
(IEC DESIGNATION R20)
6pcs, 9V

【BATTERY TERMINAL (R) BOARD】

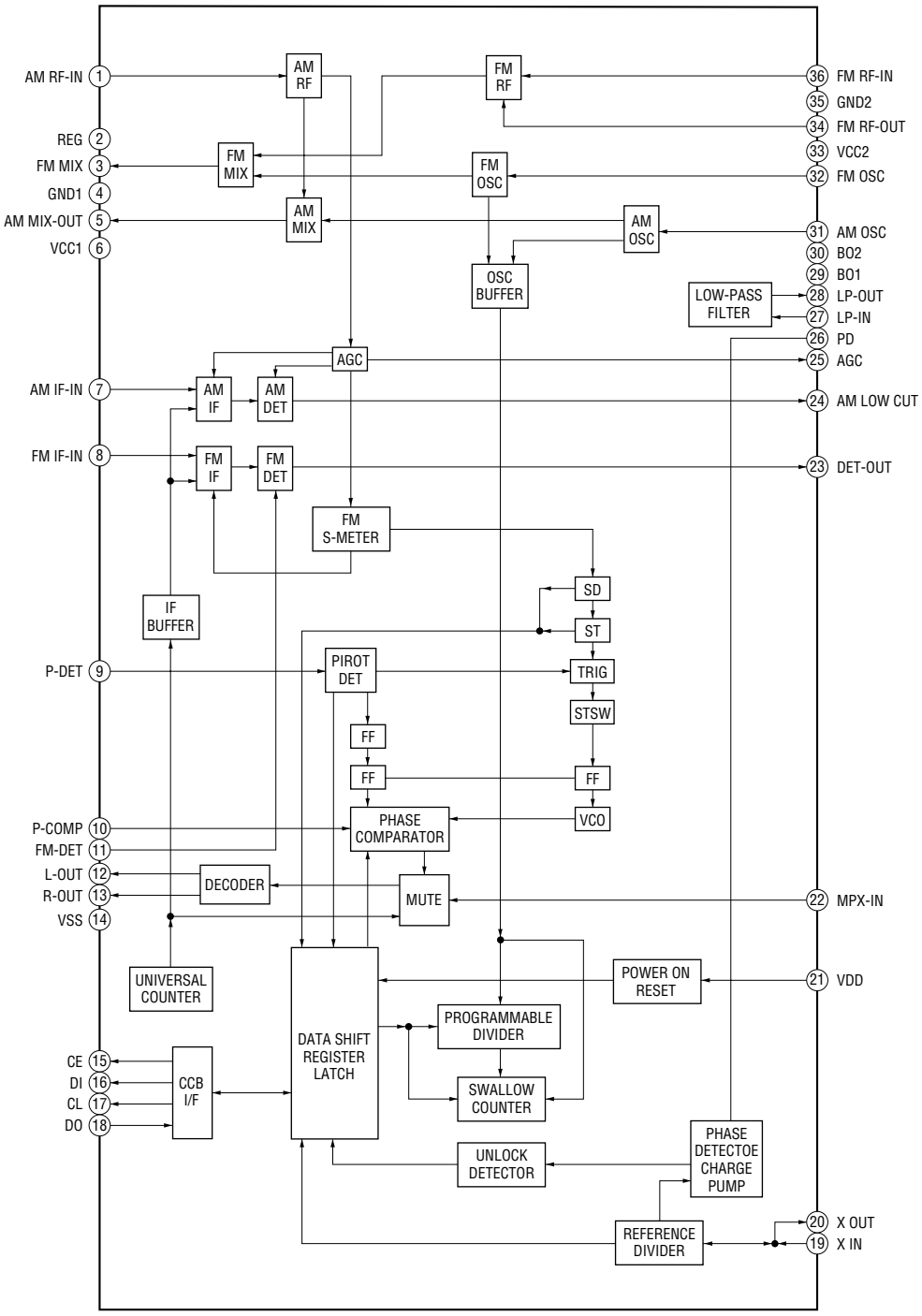


6-14. SCHEMATIC DIAGRAM — POWER SUPPLY SECTION —

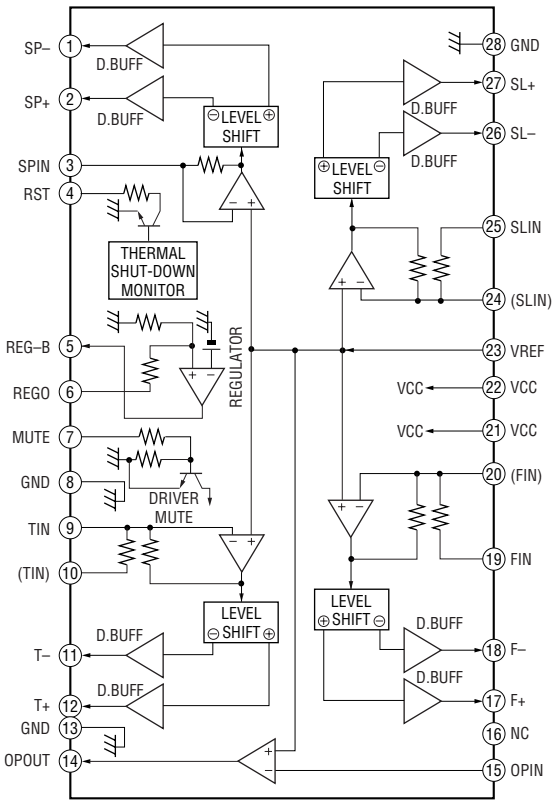


• IC BLOCK DIAGRAMS

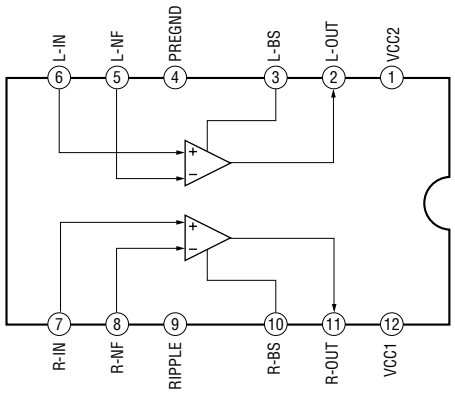
IC1 LV23003VA (MAIN Board (2/4))



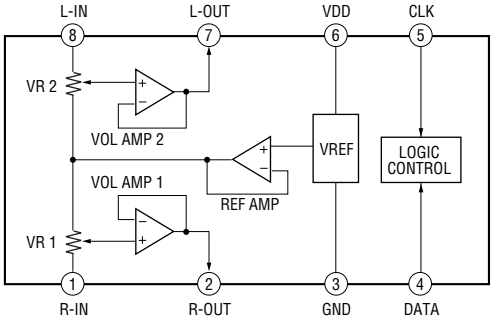
IC703 BA5826FP-E2 (MAIN Board (1/4))



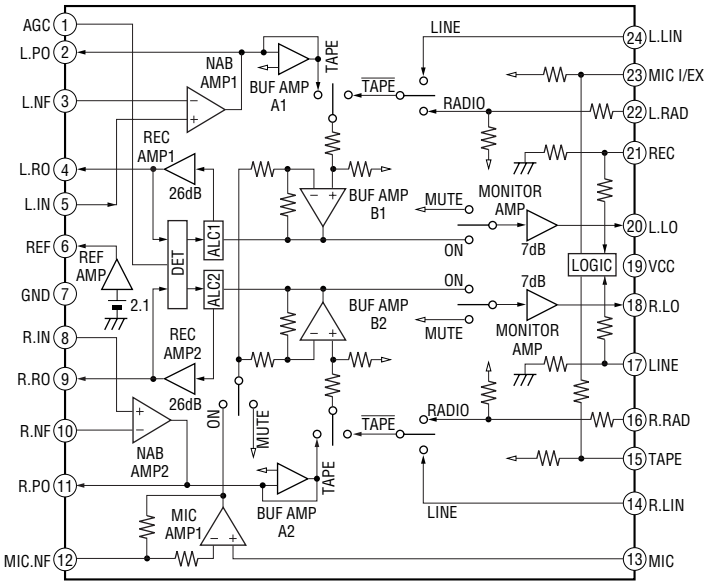
IC303 TA8227P (MAIN Board (4/4))



IC302 PT2257-S (MAIN Board (4/4))



IC301 TA2068N (TC Board)



• IC PIN DESCRIPTIONS

• IC701 BU9532KS2 (RF AMP, SYSTEM SERVO PROCESSOR, DIGITAL SIGNAL PROCESSOR) (MAIN BOARD (1/4))

Pin No.	Pin Name	I/O	Pin Description
1	AVDD1	I	Power supply pin (+3.3V)
2	AC (I)	I	A+C RF signal input
3	BD (I)	I	B+D RF signal input
4	VBIAS (O)	O	VC voltage output
5	E (I)	I	E RF signal input
6	F (I)	I	F RF signal input
7	PKC (O)	O	RF signal peak detector capacitor fitted
8	FEN (I)	I	Focus error amp input
9	FEO (O)	O	Focus error output
10	BTC (O)	O	RF signal bottom detector capacitor fitted
11	PD (I)	I	Photo detector signal input
12	LD (O)	O	Laser diode drive signal outout
13	ASY (I)	I	Asymmentric correction input
14	PCO (O)	O	PLL PCO output
15	FCO (O)	O	PLL FCO-DAC output
16	AGND1	—	Ground
17	FDOUT (O)	O	Focus drive signal output
18	JUMPO (O)	O	track jump pulse drive signal input
19	TDOUT (O)	O	Tracking drive sigmal outout
20	SDIN (I)	I	Sled drive signal input
21	SDOUT (O)	O	Sled drive signal output
22	CLVOUT (O)	O	CLV drive signal output
23	CLK88 (O)	O	Not used (Open)
24	LON (O)	O	Not used (Open)
25	CLK (O)	O	Not used (Open)
26	SUBSYQ (O)	O	Sub code synchronous signal output
27	MCK (I)	I	Command transfer clock input
28	DIN (I)	I	Status and SUB-Q data input
29	DOUT (O)	O	Command data output
30	R/W (I)	I	Command read/write signal input
31	RESETX (I)	I	Reset signal input
32	BUSY (O)	O	BUSY signal output
33	MONI 0	I	Test input (Not used (pull duwn))
34	MONI 1	I	Muting signal input
35	XPCLK	O	XPCLK signal output
36	DVDD	—	Power supply pin (+3.3V)
37	XI (I)	I	Main clock input (18.432MHz)
38	XO (O)	O	Main clock output (18.432MHz)
39	DGND	—	Ground
40	AVDD2	—	Power supply pin (+3.3V)
41	LDACO (O)	O	Audio L-CH output
42	VCDAC	O	Audio DAC reference voltage output
43	RDACO (O)	O	Audio R-CH output
44	AGND2	—	Ground
45	RFRPRFM (O)	O	RFRP capacitor fitted
46	TZCRFM (O)	O	TZC capacitor fitted
47	SC (O)	O	Scratch depth ajstment output
48	TEO (O)	O	Tracking error outpot

Pin No.	Pin Name	I/O	Pin Description
49	TEN (O)	O	Tracking error input
50	CACG (O)	O	RFAGC time constant capacitor fitted
51	RFI (I)	O	RF capacitor fitted
52	EQO (O)	O	RF EQ output

• IC801 μPD78947GC-A49-8BT-A (SYSTEM CONTROL) (MAIN BOARD (3/4))

Pin No.	Pin Name	I/O	Pin Description
1, 2	NC	I	Not used. (Open)
3 to 5	VLC2 to 0	O	LCD drive bias voltage input
6 to 9	COM1 to 4	O	LCD drive common output
10 to 26	S1 to 17	I	LCD drive segment output
27	TAPE REC	I	Tape record signal input H: REC
28	NC	I	Not used. (Pull down)
29	DOOR SW	I	CD door open/close switch input L: Close
30	NC	O	Not used (Open)
31	SIMUKE1	I	Model discrimination input
32	SIMUKE2	I	Model discrimination input
33	SIMUKE3	I	Model discrimination input
34	NC	O	Not used (Open)
35	A-MUTE	O	Audio mute output H: Mute
36	FUNC CD	O	CD power control signal output H: CD ON
37	FUNC TC	O	Tape function output H: Tape
38	AVDD	—	Power supply (+3.3 V)
39	BATT-CHK-H	I	Battery voltage check input
40	BATT-CHK-M	I	Battery voltage check input (Not used (Pull down))
41	6V-CHK	I	Power supply 6V check signal input
42	3V-CHK	I	Power supply CD 3.3V check signal input
43 to 45	KEY3 to 1	I	Key input
46	NC	I	Not used (Pull down)
47	AGND	I	Ground
48	RMC IN	I	Remote commander receiver data input (Not used)
49	TC-PLAY	I	Tape play switch input L: Tape play
50	WP/INI	I	Wake-up/Interrupt signal input
51	CD-SUBSYQ	I	CD sub code synchronous signal input
52	CD-BUSY	I	CD BUSY signal input
53	CD-DOUT	I	CD command data input
54	CD-DIN	O	CD status and SUB-Q data output
55	CD-MCK	O	CD command transfer clock output
56	TU-COUNT	I	Tuner PLL serial data input
57	TU-DATA	O	Tuner PLL serial data output
58	TU-CLK	O	Tuner PLL serial transfer clock output
59	TU-CE	O	Tuner PLL chip enable signal output
60	MIC DET	I	Not used (Pull down)
61	TU-ON	O	Not used (Open)
62	CD-R/W	O	CD command read/write signal output
63	CD-LIM_SW	I	CD optical inner limit signal input
64	CD-RESETX	O	CD system reset output
65	P-CON	O	System power control output H: Power on
66	ISS1	O	Not used (Open)
67	ISS2	O	Not used (Open)
68	M-BASS	O	MEGA BASS control signal output H: MEGA BASS on
69	ICO	I	Not used (Pull down)
70	XT1	I	Sub system oscillation input (32.768 kHz)
71	XT2	O	Sub system oscillation output (32.768 kHz)
72	VDD	—	Power supply (+3.3 V)
73	VSS	—	Ground

Pin No.	Pin Name	I/O	Pin Description
74	X1	I	Main system oscillation input (4.19 MHz)
75	X2	O	Main system oscillation output (4.19 MHz)
76	RST	I	System reset input
77	V-CLK	O	Volume command transfer clock output
78	V-DATA	O	Volume command data output
79	SCULL	O	EEPROM serial clock output
80	SAD	I/O	EEPROM serial data input/output

SECTION 7
EXPLODED VIEWS

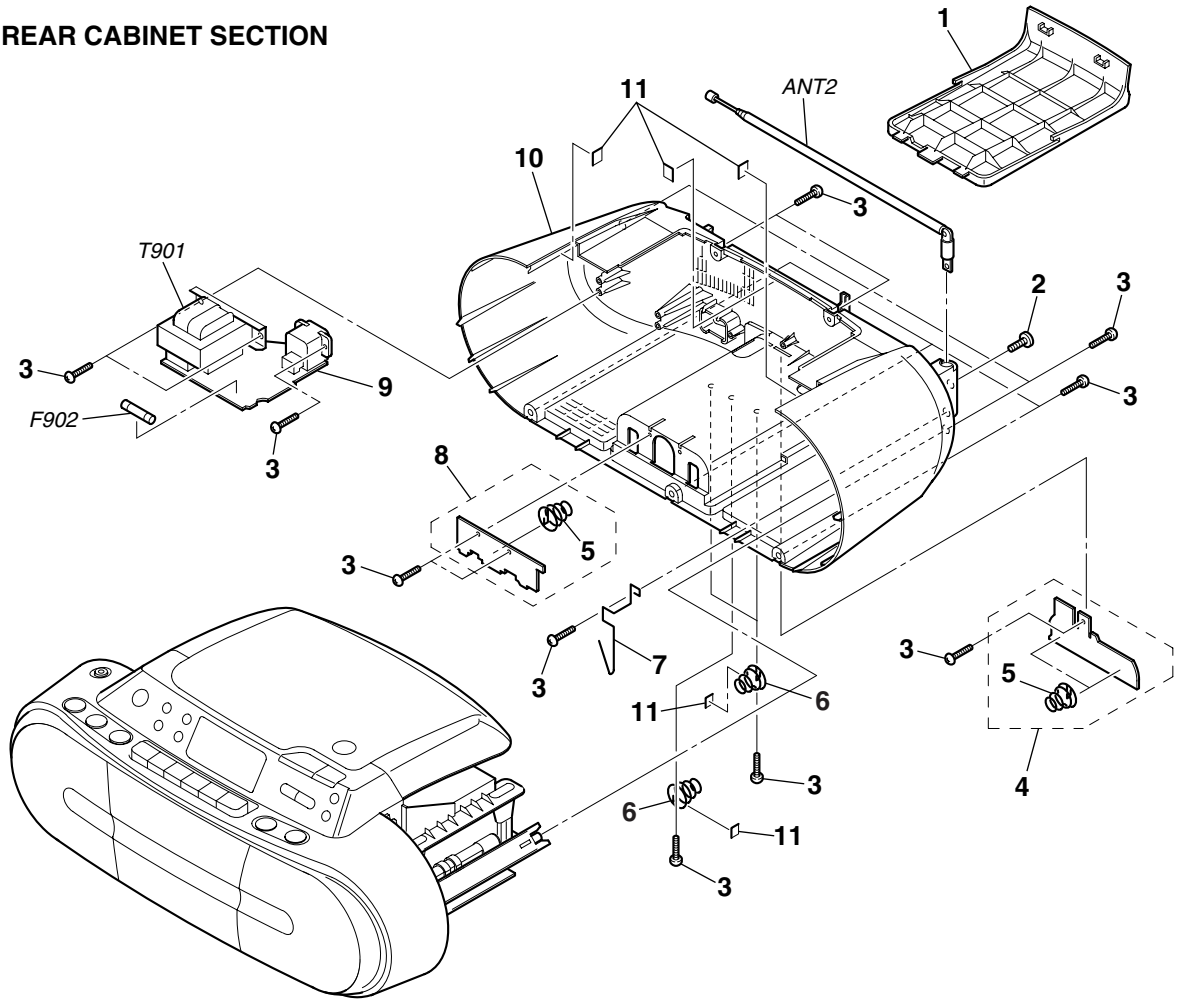
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  E41 : AC 230V area in E model
  E92 : AC 120V area in E model
  AUS : Australian model
  AR : Argentina model
  CET : East European & Russian model
  IT : Italian model
  KR : Korea model
  MX : Mexican model
  SP : Singapore model
  TH : Thai model
  TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

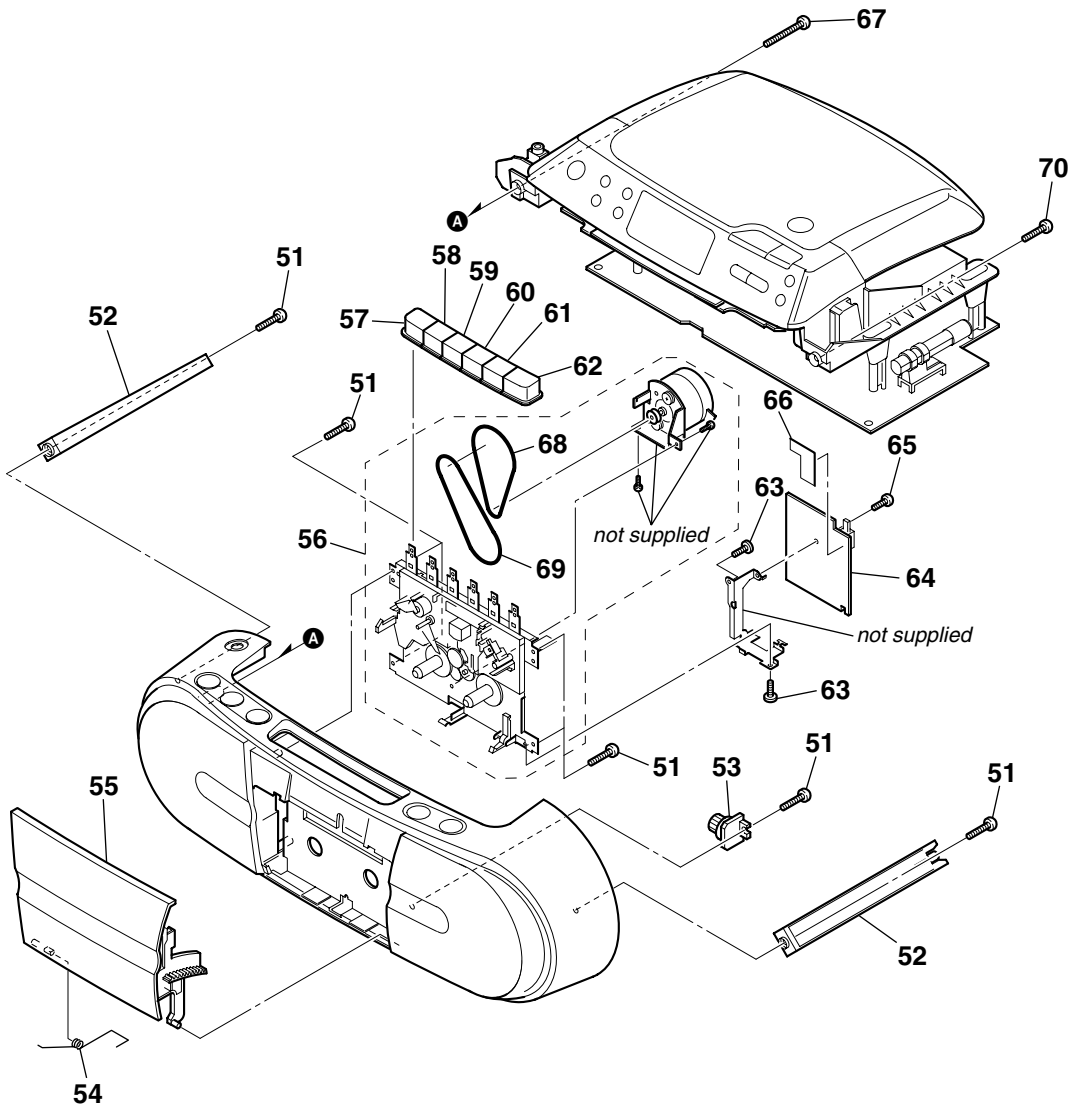
7-1. REAR CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	2-654-054-01	LID, BATTERY (GRAY)...(GRAY)	
1	2-654-054-11	LID, BATTERY (LIGHT GRAY)...(SILVER)	
2	3-252-833-01	SCREW (M3), (+) P	
3	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
4	A-1147-599-A	BATTERY TERMINAL (R) BOARD, COMPLETE	
5	3-229-975-01	SPRING, BATTERY (–)	
6	3-252-540-01	SPRING (+.–), BATTERY	
7	2-654-073-01	TERMINAL, ANTENNA	
8	A-1147-598-A	BATTERY TERMINAL (F) BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
9	A-1147-591-A	POWER BOARD, COMPLETE	(EXCEPT CND,E92,MX)
9	A-1154-888-A	POWER BOARD, COMPLETE (E92,MX)	
9	A-1174-394-A	POWER BOARD, COMPLETE (CND)	
10	2-654-040-02	CABINET (REAR) (GRAY)...(GRAY)	
10	2-654-040-32	CABINET (REAR) (LIGHT GRAY)...(SILVER)	
11	3-831-441-99	SHEET (1)	
ANT2	1-754-376-11	ANTENNA, TELESCOPIC (FM)	
⚠F902	1-533-468-12	FUSE, GLASS TUBE (DIA. 5) (2A/250V)	
⚠T901	1-443-861-11	TRANSFORMER, POWER	(EXCEPT CND,E92,MX,TW)
⚠T901	1-443-871-11	TRANSFORMER, POWER (CND,E92,MX,TW)	

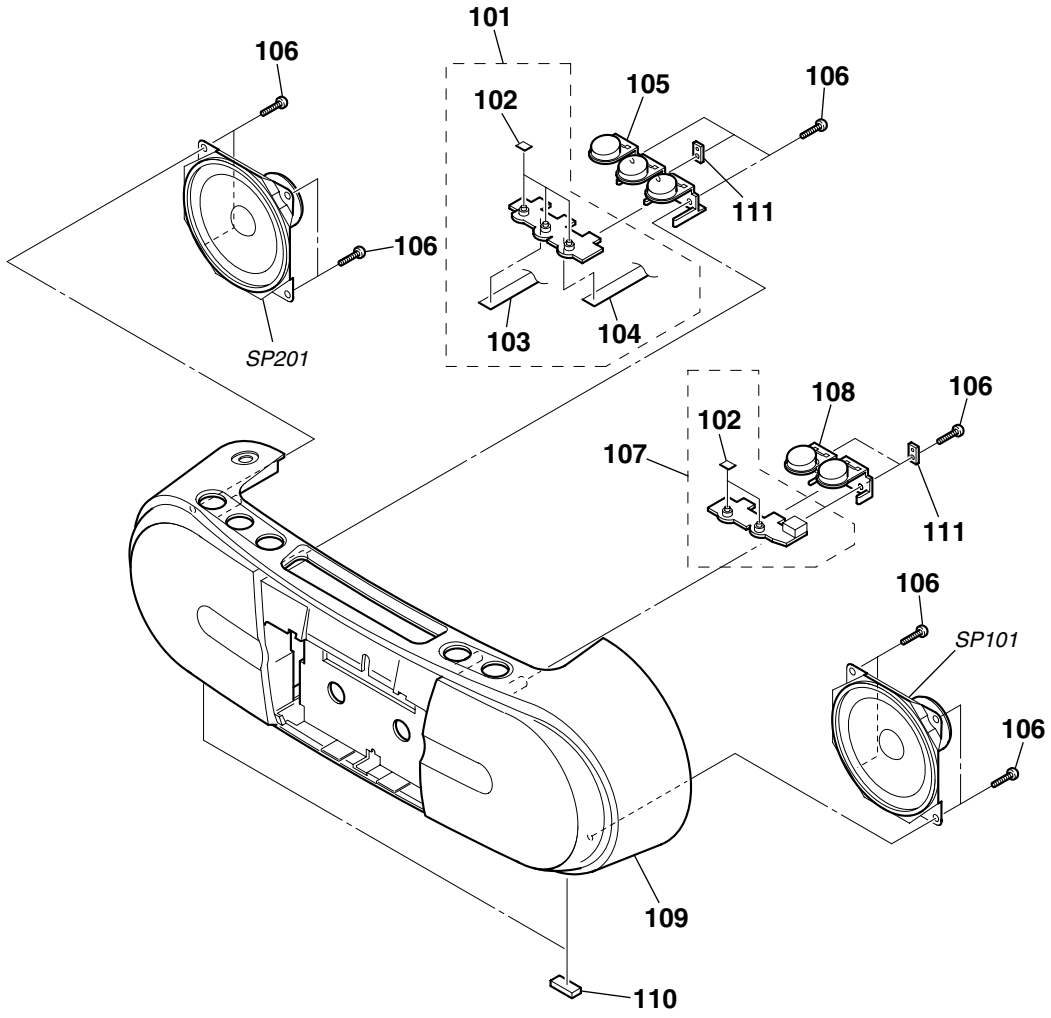
7-2. FRONT CABINET SECTION (1)



Ref. No.	Part No.	Description	Remark
51	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
52	2-655-159-01	JOINT, CABINET	
53	3-047-468-01	DAMPER	
54	2-654-071-01	SPRING, CASSETTE	
55	X-2102-580-1	HOLDER SUB ASSY, CASSETTE (DARK BLUE)...(GRAY)	
55	X-2103-200-1	HOLDER SUB ASSY, CASSETTE (GRAY)...(SILVER)	
56	1-797-376-11	DECK, MECHANICAL	
57	2-654-047-01	BUTTON (PAUSE) (GRAY)...(GRAY)	
57	2-654-047-11	BUTTON (PAUSE) (GRAY)...(SILVER)	
58	2-654-046-01	BUTTON (STOP) (GRAY)...(GRAY)	
58	2-654-046-11	BUTTON (STOP) (GRAY)...(SILVER)	
59	2-654-045-01	BUTTON (REW) (GRAY)...(GRAY)	
59	2-654-065-11	BUTTON (REW) (GRAY)...(SILVER)	

Ref. No.	Part No.	Description	Remark
60	2-654-044-01	BUTTON (FF) (GRAY)...(GRAY)	
60	2-654-044-11	BUTTON (FF) (GRAY)...(SILVER)	
61	2-654-042-01	BUTTON (PLAY) (GRAY)...(GRAY)	
61	2-654-042-11	BUTTON (PLAY) (GRAY)...(SILVER)	
62	2-654-043-01	BUTTON (REC) (GRAY)...(GRAY)	
62	2-654-043-11	BUTTON (REC) (GRAY)...(SILVER)	
63	3-254-029-01	SCREW	
64	A-1147-592-A	TC BOARD, COMPLETE (AEP,UK,CET,IT,KR)	
64	A-1158-702-A	TC BOARD, COMPLETE (EXCEPT AEP,UK,CET,IT,KR)	
65	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
66	2-668-660-01	PAPER (C), SHIELD	
67	3-254-141-01	SCREW (B2.6), (+) BV TAPPING	
68	2-670-389-01	BELT (1) ϕ42	
69	2-670-390-01	BELT (2) ϕ39	
70	3-254-140-01	SCREW (B2.6), (+) BV TAPPING	

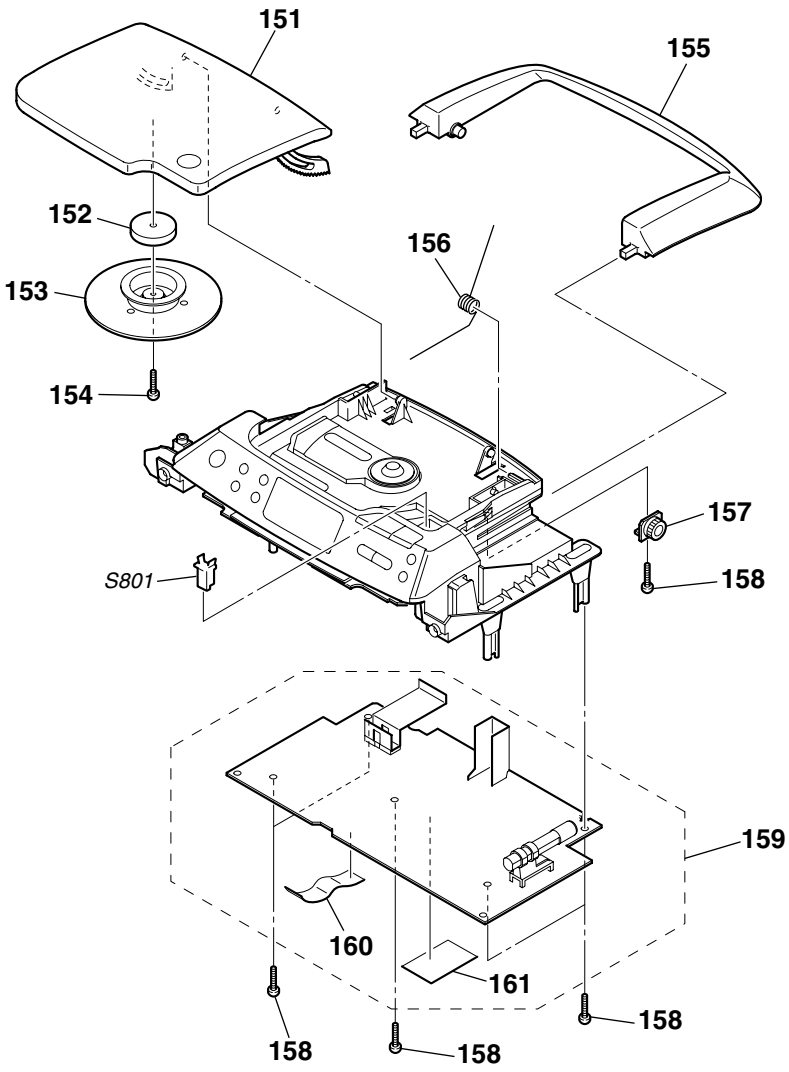
7-3. FRONT CABINET SECTION (2)



Ref. No.	Part No.	Description	Remark
101	A-1147-581-A	KEY (FUNC) BOARD, COMPLETE	
102	3-831-441-99	SHEET (1)	
103	1-831-616-11	CABLE, FLEXIBLE FLAT (4 CORE)	
104	1-831-613-11	CABLE, FLEXIBLE FLAT (4 CORE)	
105	2-654-050-01	BUTTON (FUNC)	
106	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
107	A-1147-583-A	KEY (VOL) BOARD, COMPLETE	
108	2-654-051-01	BUTTON (VOLUME) (GRAY)...(GRAY)	
108	2-654-051-11	BUTTON (VOLUME) (LIGHT GRAY)...(SILVER)	

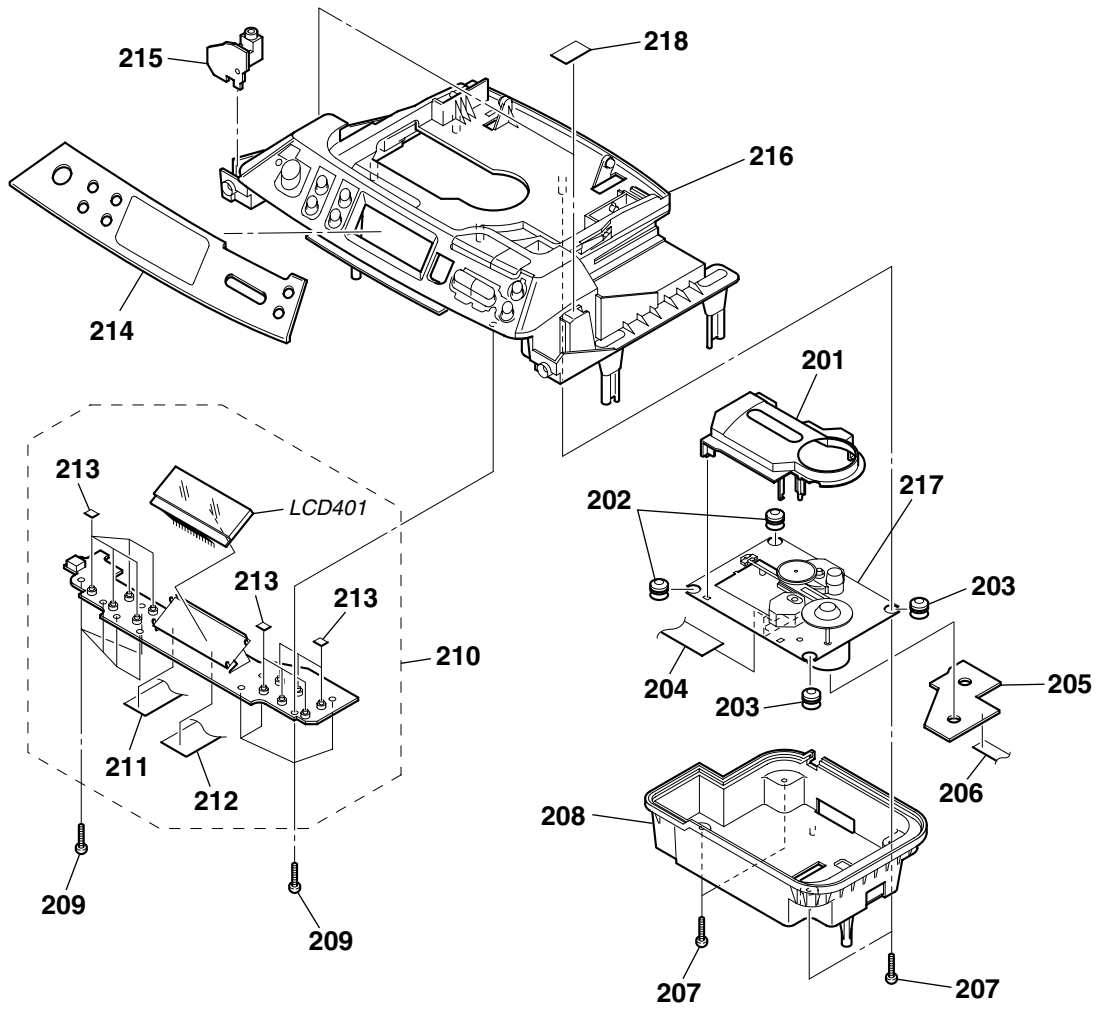
Ref. No.	Part No.	Description	Remark
109	X-2102-579-1	CABINET (FRONT) SUB ASSY (GUN METALLIC)...(GRAY)	
109	X-2103-199-1	CABINET (FRONT) SUB ASSY (SILVER)...(SILVER) (CND,AUS,KR,SP,TH,TW)	
109	X-2103-330-1	CABINET (FRONT) SUB ASSY (SILVER)...(SILVER) (E41,E92,AR,MX)	
110	3-040-916-01	FOOT (FRONT), RUBBER	
111	1-868-845-11	RETAINER BOARD	
SP101	1-826-280-11	SPEAKER (7.7cm) (L-CH)	
SP201	1-826-280-11	SPEAKER (7.7cm) (R-CH)	

7-4. UPPER CABINET SECTION (1)



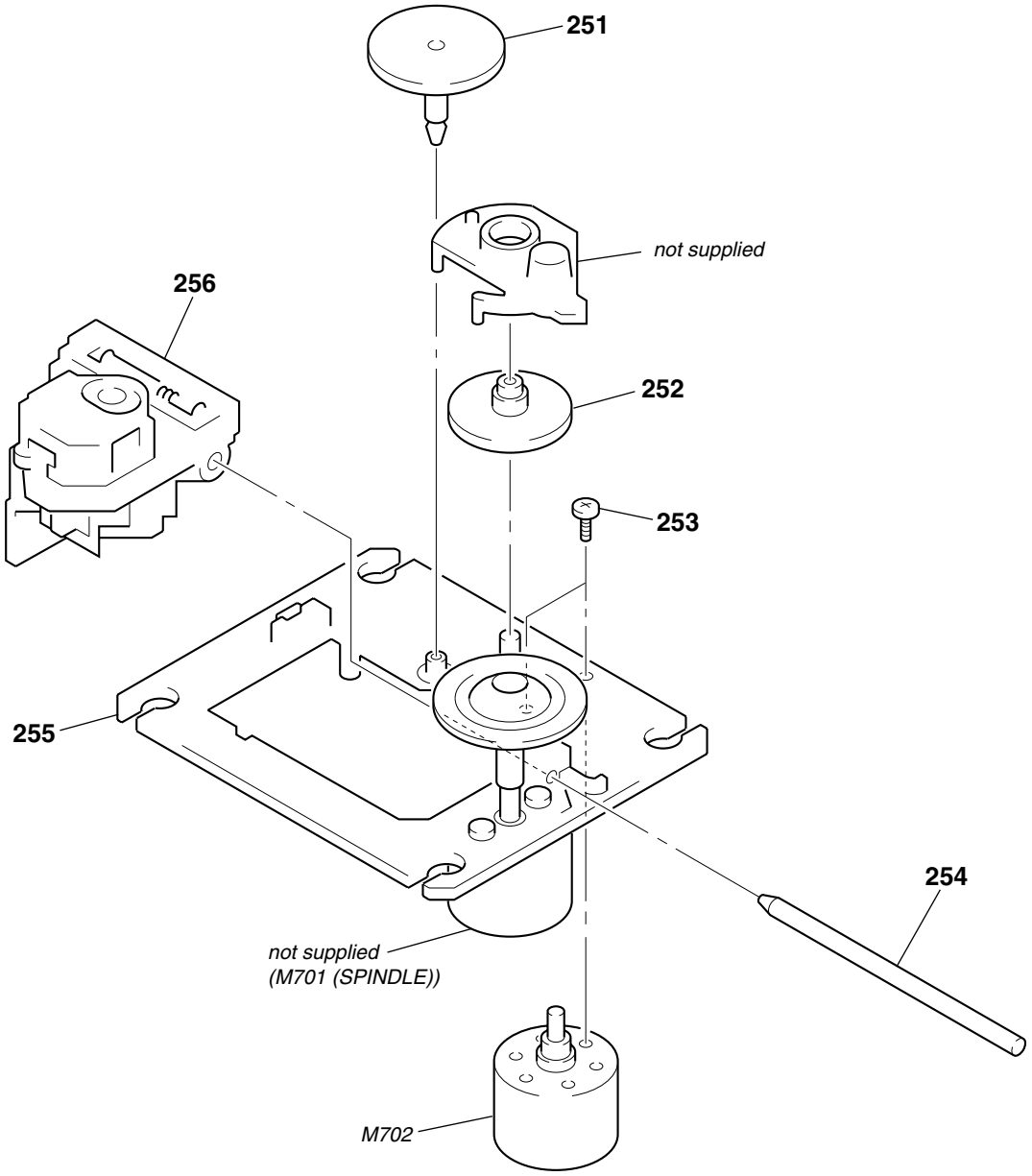
Ref. No.	Part No.	Description	Remark
151	2-654-053-01	LID, CD (DARK BLUE)...(GRAY)	
151	2-654-053-11	LID, CD (GRAY)...(SILVER)	
152	1-452-899-11	MAGNET	
153	3-019-395-01	PLATE, CHUCKING	
154	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
155	2-654-056-01	HANDLE (DARK BLUE)...(GRAY)	
155	2-654-056-11	HANDLE (GRAY)...(SILVER)	
156	2-654-072-01	SPRING, CD	
157	3-047-468-21	DAMPER	
158	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
159	A-1147-588-A	MAIN BOARD, COMPLETE (AEP,UK,CET,SP,E41,IT,TH)	
159	A-1154-775-A	MAIN BOARD, COMPLETE (AUS,KR,TW)	
159	A-1161-097-A	MAIN BOARD, COMPLETE (CND,E92,MX)	
159	A-1161-260-A	MAIN BOARD, COMPLETE (AR)	
160	1-831-619-11	CABLE, FLEXIBLE FLAT (11 CORE)	
161	2-666-526-01	PAPER (B), SHIELD	
S801	1-692-960-21	SWITCH, PUSH (1 KEY) (⏏ PUSH OPEN/CLOSE)	

7-5. UPPER CABINET SECTION (2)



Ref. No.	Part No.	Description	Remark
201	3-923-736-01	COVER, CD	
202	3-931-379-21	RUBBER, VIBRATION PROOF (RED)	
203	3-931-379-31	RUBBER, VIBRATION PROOF (GREEN)	
204	1-831-623-11	CABLE, FLEXIBLE FLAT (16 CORE)	
205	A-1147-593-A	CD MOTOR BOARD, COMPLETE	
206	1-831-614-11	CABLE, FLEXIBLE FLAT (6 CORE)	
207	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
208	2-654-055-01	CHASSIS, CD	
209	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
210	A-1147-586-A	CONTROL BOARD, COMPLETE	
211	1-831-615-11	CABLE, FLEXIBLE FLAT (12 CORE)	
212	1-831-617-11	CABLE, FLEXIBLE FLAT (14 CORE)	
213	3-831-441-99	SHEET (1)	
214	2-654-057-02	WINDOW, LCD (for GRAY)	
214	2-654-057-13	WINDOW, LCD (for SILVER)	
215	A-1147-585-A	HEADPHONE BOARD, COMPLETE	
216	X-2102-582-1	CABINET (UPPER) SUB ASSY (DARK BLUE)...(GRAY)	
216	X-2103-201-1	CABINET (UPPER) SUB ASSY (GRAY)...(SILVER)	
⚠217	8-820-126-01	OPTICAL PICK-UP (KSM-213CDP/C2NP)	
218	3-831-441-11	CUSHION (D)	
LCD401	1-802-024-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-6. CD MECHANISM SECTION (KSM-213CDP)



Ref. No.	Part No.	Description	Remark
251	2-626-907-11	GEAR (A)	
252	2-627-003-01	GEAR (B) (RP)	
253	2-174-500-01	SCREW (2X3)	
254	2-626-908-01	SHAFT, SLED	
255	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (SPINDLE) (including M701)	
⚠256	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)	
M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	

BATTERY TERMINAL (F)
BATTERY TERMINAL (R)
CD MOTOR | CONTROL
HEADPHONE

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviation
  CND : Canadian model
  E41 : AC 230V area in E model
  E92 : AC 120V area in E model
  AUS : Australian model
  AR : Argentina model
  CET : East European & Russian model
  IT : Italian model
  KR : Korea model
  MX : Mexican model
  SP : Singapore model
  TH : Thai model
  TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-1147-598-A	BATTERY TERMINAL (F) BOARD, COMPLETE			
		**********			
	3-229-975-01	SPRING, BATTERY (–)			
		< CONNECTOR >			
CN903	1-815-550-11	PIN, CONNECTOR (PWB) 2P			
**********					
	A-1147-599-A	BATTERY TERMINAL (R) BOARD, COMPLETE			
		**********			
	3-229-975-01	SPRING, BATTERY (–)			
**********					
	A-1147-593-A	CD MOTOR BOARD, COMPLETE			
		**********			
		< SWITCH >			
S701	1-572-085-21	SWITCH, LEAF (LIMIT)			
**********					
	A-1147-586-A	CONTROL BOARD, COMPLETE			
		**********			
	1-831-615-11	CABLE, FLEXIBLE FLAT (12 CORE) (FFC060)			
	1-831-617-11	CABLE, FLEXIBLE FLAT (14 CORE) (FFC070)			
	3-831-441-99	SHEET (1)			
		< CONNECTOR >			
CN402	1-784-726-11	CONNECTOR, FFC 4P			
		< DIODE >			
D406	8-719-059-97	LED L-34HD (OPR/BATT)			
		< JUMPER RESISTOR >			
JC401	1-216-864-11	SHORT CHIP	0		
		< LIQUID CRYSTAL DISPLAY >			
LCD401	1-802-024-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< RESISTOR >			
R403	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R404	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R406	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R407	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R409	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-813-11	METAL CHIP	220	5%	1/10W
R414	1-216-817-11	METAL CHIP	470	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R417	1-216-821-11	METAL CHIP	1K	5%	1/10W
R423	1-216-813-11	METAL CHIP	220	5%	1/10W
R424	1-216-817-11	METAL CHIP	470	5%	1/10W
R425	1-216-813-11	METAL CHIP	220	5%	1/10W
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W
R429	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R430	1-216-821-11	METAL CHIP	1K	5%	1/10W
R433	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R434	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S401	1-786-050-21	SWITCH, KEYBOARD (TUNE –)			
S403	1-786-050-21	SWITCH, KEYBOARD (■)			
S404	1-786-050-21	SWITCH, KEYBOARD (►❚❚)			
S407	1-786-050-21	SWITCH, KEYBOARD (●/OPERATE)			
S408	1-786-050-21	SWITCH, KEYBOARD (SLEEP)			
S410	1-786-050-21	SWITCH, KEYBOARD (TUNE +)			
S411	1-786-050-21	SWITCH, KEYBOARD (I◄◄/PRESET –)			
S412	1-786-050-21	SWITCH, KEYBOARD (►►I/PRESET +)			
S413	1-786-050-21	SWITCH, KEYBOARD (DISPLAY/ENTER)			
S414	1-786-050-21	SWITCH, KEYBOARD (MODE)			
S417	1-786-050-21	SWITCH, KEYBOARD (MEGA BASS)			
**********					
	A-1147-585-A	HEADPHONE BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C116	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C216	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN308	1-815-445-11	PIN, CONNECTOR (PWB) 4P			
		< JACK >			
J321	1-815-325-11	JACK (🎧)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R146	1-216-809-11	METAL CHIP	100	5%	1/10W
R148	1-216-805-11	METAL CHIP	47	5%	1/10W
R246	1-216-809-11	METAL CHIP	100	5%	1/10W
R248	1-216-805-11	METAL CHIP	47	5%	1/10W
**********					
	A-1147-581-A	KEY (FUNC) BOARD, COMPLETE			
		**********			
	1-831-613-11	CABLE, FLEXIBLE FLAT (4 CORE) (FFC085)			
	1-831-616-11	CABLE, FLEXIBLE FLAT (4 CORE) (FFC090)			
	3-831-441-99	SHEET (1)			
		< RESISTOR >			
R418	1-216-813-11	METAL CHIP	220	5%	1/10W
R419	1-216-817-11	METAL CHIP	470	5%	1/10W
R435	1-216-821-11	METAL CHIP	1K	5%	1/10W
R436	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S402	1-786-050-21	SWITCH, KEYBOARD			
		(RADIO/BAND/AUTO PRESET)			
S405	1-786-050-21	SWITCH, KEYBOARD (CD)			
S415	1-786-050-21	SWITCH, KEYBOARD (TAPE)			
**********					
	A-1147-583-A	KEY (VOL) BOARD, COMPLETE			
		**********			
	3-831-441-99	SHEET (1)			
		< CONNECTOR >			
CN401	1-784-726-11	CONNECTOR, FFC 4P			
		< RESISTOR >			
R432	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S416	1-786-050-21	SWITCH, KEYBOARD (VOLUME –)			
S418	1-786-050-21	SWITCH, KEYBOARD (VOLUME +)			
**********					
	A-1147-588-A	MAIN BOARD, COMPLETE			
		(AEP,UK,CET,SP,E41,IT,TH)			
	A-1154-775-A	MAIN BOARD, COMPLETE (AUS,KR,TW)			
	A-1161-097-A	MAIN BOARD, COMPLETE (CND,E92,MX)			
	A-1161-260-A	MAIN BOARD, COMPLETE (AR)			
		**********			
	1-831-619-11	CABLE, FLEXIBLE FLAT (11 CORE) (FFC030)			
	2-666-526-01	PAPER (B), SHIELD			
	3-254-142-01	SCREW (B3), (+) BV TAPPING			
		< ANTENNA >			
ANT1	1-754-117-12	ANTENNA, FERRITE-ROD (AM)			
		< CAPACITOR >			
C1	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C6	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C7	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V

Ref. No.	Part No.	Description			Remark
C9	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C10	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
					(EXCEPT CND,E92,MX)
C10	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
					(CND,E92,MX)
C11	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C12	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C13	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C14	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
					(EXCEPT CND,E92,MX)
C14	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
					(CND,E92,MX)
C15	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C16	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C17	1-104-662-91	ELECT	22uF	20%	25V
C18	1-126-963-11	ELECT	4.7uF	20%	50V
C19	1-126-956-91	ELECT	0.1uF	20%	50V
C20	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C21	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C22	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C23	1-126-947-11	ELECT	47uF	20%	35V
C24	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C25	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C26	1-115-156-11	CERAMIC CHIP	1uF		10V
C27	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C28	1-115-156-11	CERAMIC CHIP	1uF		10V
C29	1-126-925-91	ELECT	470uF	20%	10V
C30	1-126-923-91	ELECT	220uF	20%	10V
C31	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
					(CND,E92,MX)
C32	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C33	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
					(CND,E92,MX)
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C35	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C36	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C37	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C38	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C39	1-126-923-91	ELECT	220uF	20%	10V
C40	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C41	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C42	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C43	1-126-964-11	ELECT	10uF	20%	50V
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C46	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C67	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C70	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C106	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C112	1-126-925-91	ELECT	470uF	20%	10V
C113	1-126-960-11	ELECT	1uF	20%	50V
C115	1-126-960-11	ELECT	1uF	20%	50V
C117	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-104-658-91	ELECT	100uF	20%	10V
C125	1-126-959-11	ELECT	0.47uF	20%	50V
C127	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C129	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C130	1-126-957-11	ELECT	0.22uF	20%	50V
C131	1-126-947-11	ELECT	47uF	20%	35V
C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C162	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C163	1-126-960-11	ELECT	1uF	20%	50V
C206	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C210	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C212	1-126-925-91	ELECT	470uF	20%	10V
C213	1-126-960-11	ELECT	1uF	20%	50V
C215	1-126-960-11	ELECT	1uF	20%	50V
C217	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C219	1-104-658-91	ELECT	100uF	20%	10V
C225	1-126-959-11	ELECT	0.47uF	20%	50V
C227	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C229	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C230	1-126-957-11	ELECT	0.22uF	20%	50V
C231	1-126-947-11	ELECT	47uF	20%	35V
C232	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C262	1-126-960-11	ELECT	1uF	20%	50V
C263	1-126-960-11	ELECT	1uF	20%	50V
C311	1-126-965-91	ELECT	22uF	20%	50V
C322	1-126-934-11	ELECT	220uF	20%	16V
C323	1-126-964-11	ELECT	10uF	20%	50V
C324	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C325	1-126-937-11	ELECT	4700uF	20%	16V
C326	1-126-923-91	ELECT	220uF	20%	10V
C327	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
			(EXCEPT CND,E92,AR,MX)		
C330	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C331	1-126-947-11	ELECT	47uF	20%	35V
C349	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C350	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C351	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C352	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C353	1-126-925-91	ELECT	470uF	20%	10V
C354	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C355	1-126-767-11	ELECT	1000uF	20%	16V
C356	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C357	1-126-923-91	ELECT	220uF	20%	10V
C700	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C701	1-104-658-91	ELECT	100uF	20%	10V
C702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C703	1-104-658-91	ELECT	100uF	20%	10V
C704	1-104-658-91	ELECT	100uF	20%	10V
C705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-104-658-91	ELECT	100uF	20%	10V
C708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C709	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C710	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C711	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C713	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C716	1-126-963-11	ELECT	4.7uF	20%	50V
C717	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C718	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C719	1-126-964-11	ELECT	10uF	20%	50V
C720	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C721	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C722	1-126-923-91	ELECT	220uF	20%	10V
C723	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C725	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C726	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C727	1-162-919-11	CERAMIC CHIP	22PF	5%	50V

Ref. No.	Part No.	Description			Remark
C728	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C729	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C730	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C731	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C733	1-104-658-91	ELECT	100uF	20%	10V
C735	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C738	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C744	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C745	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C747	1-104-658-91	ELECT	100uF	20%	10V
C748	1-127-692-11	CERAMIC CHIP	10uF	10%	16V
C749	1-126-964-11	ELECT	10uF	20%	50V
C750	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C751	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C752	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C753	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C754	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C755	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C757	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C758	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C759	1-104-658-91	ELECT	100uF	20%	10V
C760	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C761	1-104-655-91	ELECT	470uF	20%	6.3V
C762	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C763	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C764	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C765	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C766	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C767	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C769	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C772	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C773	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C774	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C777	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C779	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C781	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C782	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C783	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C801	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C802	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C804	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C805	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C806	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C810	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C814	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C815	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C816	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C817	1-104-658-91	ELECT	100uF	20%	10V
C818	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C819	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C820	1-115-156-11	CERAMIC CHIP	1uF		10V
C821	1-115-156-11	CERAMIC CHIP	1uF		10V
C822	1-126-923-91	ELECT	220uF	20%	10V
C824	1-115-156-11	CERAMIC CHIP	1uF		10V
C826	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C835	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C951	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C952	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C953	1-126-925-91	ELECT	470uF	20%	10V
C954	1-126-965-91	ELECT	22uF	20%	50V
C957	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C959	1-126-923-91	ELECT	220uF	20%	10V
C960	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C961	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< FILTER >			
CF2	1-767-555-11	FILTER, CERAMIC			
CF3	1-781-962-21	FILTER, CERAMIC			
		< CONNECTOR >			
CN304	1-815-552-11	PIN, CONNECTOR (PWB) 4P			
CN305	1-815-551-11	PIN, CONNECTOR (PWB) 3P			
CN306	1-815-552-11	PIN, CONNECTOR (PWB) 4P			
CN701	1-770-646-11	CONNECTOR, FFC/FPC 16P			
CN702	1-784-767-11	CONNECTOR, FFC 6P			
CN801	1-784-736-11	CONNECTOR, FFC 14P			
CN802	1-784-734-11	CONNECTOR, FFC 12P			
		< TRIMMER >			
CT1	1-141-304-21	CAP, CERAMIC TRIMMER 10PF			
CT3	1-141-442-91	CAP, CERAMIC TRIMMER 20PF			
		< DIODE >			
D1	6-501-440-01	DIODE SVC707-AL			
D2	6-501-440-01	DIODE SVC707-AL			
D3	6-501-392-01	DIODE SVC386-AL			
D4	8-719-991-33	DIODE 1SS133T-77			
D5	8-719-991-33	DIODE 1SS133T-77			
D6	6-500-697-01	DIODE UDZSTE-173.3B			
D322	8-719-991-33	DIODE 1SS133T-77			
D323	8-719-988-61	DIODE 1SS355TE-17			
D324	8-719-991-33	DIODE 1SS133T-77			
D703	8-719-991-33	DIODE 1SS133T-77			
D704	8-719-991-33	DIODE 1SS133T-77			
D801	6-500-334-01	DIODE MC2836-T112-1			
D804	8-719-991-33	DIODE 1SS133T-77			
D951	6-500-334-01	DIODE MC2836-T112-1			
D952	8-719-991-33	DIODE 1SS133T-77			
D953	8-719-978-33	DIODE DTZ-TT11-6.8B			
D957	8-719-083-58	DIODE UDZSTE-173.9B			
		< JUMPER RESISTOR >			
FB701	1-216-295-91	SHORT CHIP	0		
FB702	1-216-295-91	SHORT CHIP	0		
FB703	1-216-295-91	SHORT CHIP	0		
FB704	1-216-295-91	SHORT CHIP	0		
		< IC >			
IC1	6-708-840-01	IC LV23003VA			
IC302	6-701-919-01	IC PT2257-S			
IC303	6-703-710-01	IC TA8227P			
IC701	6-708-984-01	IC BU9532KS2			

Ref. No.	Part No.	Description			Remark
IC703	6-701-787-11	IC BA5826FP-E2			
IC801	6-806-100-01	IC uPD789478GC-A49-8BT-A			
IC802	6-703-285-01	IC S-812C33AUA-C2NT2G			
IC804	6-704-118-01	IC S-80828CNMC-B8NT2G			
IC805	6-703-740-01	IC S-24CS02AFT-TB-G			
		< JUMPER RESISTOR >			
JC701	1-216-864-11	SHORT CHIP	0		
JC702	1-216-864-11	SHORT CHIP	0		
JC703	1-216-864-11	SHORT CHIP	0		
JC704	1-216-864-11	SHORT CHIP	0		
JC705	1-216-864-11	SHORT CHIP	0		
JC801	1-216-864-11	SHORT CHIP	0		
JC802	1-216-864-11	SHORT CHIP	0		
JC807	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1	1-419-847-11	COIL, AIR-CORE			
L2	1-419-655-11	COIL, AIR-CORE			
L3	1-411-199-31	COIL, AM OSC			
L6	1-457-168-11	COIL, DET			
L801	1-414-137-31	INDUCTOR	0.22uH		
L802	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q122	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q124	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q222	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q224	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q701	8-729-600-22	TRANSISTOR 2SA1235-F			
Q703	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q704	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q705	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q805	8-729-600-22	TRANSISTOR 2SA1235-F			
Q808	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q951	6-551-444-01	TRANSISTOR RT1N436C-TP-1			
Q952	8-729-040-76	TRANSISTOR KTA1273-Y-AT			
Q953	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q955	8-729-018-99	TRANSISTOR 2SD2394-F			
Q957	8-729-036-86	TRANSISTOR KTC3203Y-AT			
Q958	6-551-443-01	TRANSISTOR RT1P436C-TP-1			
Q959	8-729-027-46	TRANSISTOR DTC114YKA-T146			
		< RESISTOR >			
R1	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4	1-216-797-11	METAL CHIP	10	5%	1/10W
R5	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6	1-216-853-11	METAL CHIP	470K	5%	1/10W
R7	1-216-797-11	METAL CHIP	10	5%	1/10W
R9	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R10	1-216-801-11	METAL CHIP	22	5%	1/10W
R11	1-216-821-11	METAL CHIP	1K	5%	1/10W
R12	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R13	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R14	1-216-833-11	METAL CHIP	10K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R15	1-216-837-11	METAL CHIP	22K	5%	1/10W
R16	1-216-864-11	SHORT CHIP	0		
R17	1-216-864-11	SHORT CHIP	0		
R18	1-216-809-11	METAL CHIP	100	5%	1/10W
R19	1-216-809-11	METAL CHIP	100	5%	1/10W
R20	1-216-809-11	METAL CHIP	100	5%	1/10W
R21	1-216-809-11	METAL CHIP	100	5%	1/10W
R22	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R23	1-216-817-11	METAL CHIP	470	5%	1/10W
R24	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R25	1-216-821-11	METAL CHIP	1K	5%	1/10W
R26	1-216-813-11	METAL CHIP	220	5%	1/10W
R27	1-216-833-11	METAL CHIP	10K	5%	1/10W
R28	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R29	1-216-833-11	METAL CHIP	10K	5%	1/10W
R39	1-216-864-11	SHORT CHIP	0		
R41	1-216-837-11	METAL CHIP	22K	5%	1/10W
R134	1-216-813-11	METAL CHIP	220	5%	1/10W
R135	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R136	1-216-864-11	SHORT CHIP	0		
R138	1-216-817-11	METAL CHIP	470	5%	1/10W
R139	1-216-833-11	METAL CHIP	10K	5%	1/10W
R140	1-216-821-11	METAL CHIP	1K	5%	1/10W
R141	1-216-841-11	METAL CHIP	47K	5%	1/10W
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W
R143	1-216-809-11	METAL CHIP	100	5%	1/10W
R144	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R145	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R147	1-216-833-11	METAL CHIP	10K	5%	1/10W
R166	1-216-841-11	METAL CHIP	47K	5%	1/10W
R234	1-216-813-11	METAL CHIP	220	5%	1/10W
R235	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R236	1-216-864-11	SHORT CHIP	0		
R238	1-216-817-11	METAL CHIP	470	5%	1/10W
R239	1-216-833-11	METAL CHIP	10K	5%	1/10W
R240	1-216-821-11	METAL CHIP	1K	5%	1/10W
R241	1-216-841-11	METAL CHIP	47K	5%	1/10W
R242	1-216-821-11	METAL CHIP	1K	5%	1/10W
R243	1-216-809-11	METAL CHIP	100	5%	1/10W
R244	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R245	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-833-11	METAL CHIP	10K	5%	1/10W
R266	1-216-841-11	METAL CHIP	47K	5%	1/10W
R321	1-216-809-11	METAL CHIP	100	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-857-11	METAL CHIP	1M	5%	1/10W
R324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R325	1-216-821-11	METAL CHIP	1K	5%	1/10W
R326	1-216-821-11	METAL CHIP	1K	5%	1/10W
R327	1-216-821-11	METAL CHIP	1K	5%	1/10W
R328	1-216-809-11	METAL CHIP	100	5%	1/10W
R329	1-216-809-11	METAL CHIP	100	5%	1/10W
R330	1-216-809-11	METAL CHIP	100	5%	1/10W
R331	1-216-817-11	METAL CHIP	470	5%	1/10W
R332	1-216-817-11	METAL CHIP	470	5%	1/10W
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R334	1-216-821-11	METAL CHIP	1K	5%	1/10W
R335	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R336	1-216-833-11	METAL CHIP	10K	5%	1/10W
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R700	1-216-837-11	METAL CHIP	22K	5%	1/10W
R701	1-216-837-11	METAL CHIP	22K	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R703	1-216-837-11	METAL CHIP	22K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-216-837-11	METAL CHIP	22K	5%	1/10W
R706	1-216-833-11	METAL CHIP	10K	5%	1/10W
R707	1-216-837-11	METAL CHIP	22K	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R710	1-216-853-11	METAL CHIP	470K	5%	1/10W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W
R712	1-216-837-11	METAL CHIP	22K	5%	1/10W
R713	1-216-833-11	METAL CHIP	10K	5%	1/10W
R714	1-216-833-11	METAL CHIP	10K	5%	1/10W
R715	1-216-841-11	METAL CHIP	47K	5%	1/10W
R716	1-216-837-11	METAL CHIP	22K	5%	1/10W
R717	1-216-864-11	SHORT CHIP	0		
R719	1-216-809-11	METAL CHIP	100	5%	1/10W
R721	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R722	1-216-821-11	METAL CHIP	1K	5%	1/10W
R723	1-216-845-11	METAL CHIP	100K	5%	1/10W
R724	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R725	1-216-841-11	METAL CHIP	47K	5%	1/10W
R726	1-216-841-11	METAL CHIP	47K	5%	1/10W
R727	1-216-813-11	METAL CHIP	220	5%	1/10W
R728	1-216-845-11	METAL CHIP	100K	5%	1/10W
R729	1-216-841-11	METAL CHIP	47K	5%	1/10W
R730	1-216-837-11	METAL CHIP	22K	5%	1/10W
R731	1-216-845-11	METAL CHIP	100K	5%	1/10W
R732	1-216-833-11	METAL CHIP	10K	5%	1/10W
R733	1-216-864-11	SHORT CHIP	0		
R734	1-216-845-11	METAL CHIP	100K	5%	1/10W
R736	1-216-837-11	METAL CHIP	22K	5%	1/10W
R739	1-216-841-11	METAL CHIP	47K	5%	1/10W
R740	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R741	1-216-833-11	METAL CHIP	10K	5%	1/10W
R742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R743	1-216-841-11	METAL CHIP	47K	5%	1/10W
R744	1-216-821-11	METAL CHIP	1K	5%	1/10W
R745	1-216-817-11	METAL CHIP	470	5%	1/10W
R746	1-216-837-11	METAL CHIP	22K	5%	1/10W
R747	1-216-837-11	METAL CHIP	22K	5%	1/10W
R748	1-216-837-11	METAL CHIP	22K	5%	1/10W
R749	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R750	1-216-864-11	SHORT CHIP	0		
R751	1-216-841-11	METAL CHIP	47K	5%	1/10W
R754	1-216-809-11	METAL CHIP	100	5%	1/10W
R755	1-216-809-11	METAL CHIP	100	5%	1/10W
R756	1-216-809-11	METAL CHIP	100	5%	1/10W
R757	1-216-809-11	METAL CHIP	100	5%	1/10W
R758	1-216-809-11	METAL CHIP	100	5%	1/10W
R759	1-216-809-11	METAL CHIP	100	5%	1/10W
R760	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R761	1-216-813-11	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R762	1-216-853-11	METAL CHIP	470K	5%	1/10W
R763	1-216-864-11	SHORT CHIP	0		
R766	1-216-837-11	METAL CHIP	22K	5%	1/10W
R768	1-216-841-11	METAL CHIP	47K	5%	1/10W
R770	1-216-833-11	METAL CHIP	10K	5%	1/10W
R772	1-216-821-11	METAL CHIP	1K	5%	1/10W
R773	1-216-817-11	METAL CHIP	470	5%	1/10W
R774	1-216-817-11	METAL CHIP	470	5%	1/10W
R775	1-216-817-11	METAL CHIP	470	5%	1/10W
R776	1-216-817-11	METAL CHIP	470	5%	1/10W
R777	1-216-821-11	METAL CHIP	1K	5%	1/10W
R778	1-216-849-11	METAL CHIP	220K	5%	1/10W
R780	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R781	1-216-841-11	METAL CHIP	47K	5%	1/10W
R782	1-216-813-11	METAL CHIP	220	5%	1/10W
R783	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R784	1-216-813-11	METAL CHIP	220	5%	1/10W
R785	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R786	1-216-821-11	METAL CHIP	1K	5%	1/10W
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-216-841-11	METAL CHIP	47K	5%	1/10W
R803	1-216-821-11	METAL CHIP	1K	5%	1/10W
R804	1-216-841-11	METAL CHIP	47K	5%	1/10W
R805	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R807	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R808	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W
R811	1-216-817-11	METAL CHIP	470	5%	1/10W
R812	1-216-841-11	METAL CHIP	47K	5%	1/10W
R813	1-216-821-11	METAL CHIP	1K	5%	1/10W
R814	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R815	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R816	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R817	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R818	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R819	1-216-817-11	METAL CHIP	470	5%	1/10W
R820	1-216-841-11	METAL CHIP	47K	5%	1/10W
R823	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R825	1-216-841-11	METAL CHIP	47K	5%	1/10W
R826	1-216-821-11	METAL CHIP	1K	5%	1/10W
R827	1-216-845-11	METAL CHIP	100K	5%	1/10W
R828	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R829	1-216-853-11	METAL CHIP	470K	5%	1/10W
R830	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R831	1-216-821-11	METAL CHIP	1K	5%	1/10W
R832	1-216-817-11	METAL CHIP	470	5%	1/10W
R833	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R834	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R835	1-216-833-11	METAL CHIP	10K	5%	1/10W
R836	1-216-833-11	METAL CHIP	10K	5%	1/10W
R837	1-216-833-11	METAL CHIP	10K	5%	1/10W
R838	1-216-841-11	METAL CHIP	47K	5%	1/10W
R840	1-216-845-11	METAL CHIP	100K	5%	1/10W
R841	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R842	1-216-821-11	METAL CHIP	1K	5%	1/10W
R843	1-216-821-11	METAL CHIP	1K	5%	1/10W
R844	1-216-833-11	METAL CHIP	10K	5%	1/10W
R845	1-216-841-11	METAL CHIP	47K	5%	1/10W
R846	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R847	1-216-841-11	METAL CHIP	47K	5%	1/10W
R848	1-216-841-11	METAL CHIP	47K	5%	1/10W
R849	1-216-841-11	METAL CHIP	47K	5%	1/10W
R850	1-216-821-11	METAL CHIP	1K	5%	1/10W
R851	1-216-817-11	METAL CHIP	470	5%	1/10W
R852	1-216-817-11	METAL CHIP	470	5%	1/10W
R853	1-216-817-11	METAL CHIP	470	5%	1/10W
R854	1-216-813-11	METAL CHIP	220	5%	1/10W
R855	1-216-833-11	METAL CHIP	10K	5%	1/10W
R856	1-216-821-11	METAL CHIP	1K	5%	1/10W
R857	1-216-833-11	METAL CHIP	10K	5%	1/10W
R858	1-216-837-11	METAL CHIP	22K	5%	1/10W
R860	1-216-841-11	METAL CHIP	47K	5%	1/10W
R861	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R862	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R863	1-216-821-11	METAL CHIP	1K	5%	1/10W
R864	1-216-821-11	METAL CHIP	1K	5%	1/10W
R865	1-216-845-11	METAL CHIP	100K	5%	1/10W
R866	1-216-845-11	METAL CHIP	100K	5%	1/10W
R867	1-216-845-11	METAL CHIP	100K	5%	1/10W
R868	1-216-841-11	METAL CHIP	47K	5%	1/10W
R869	1-216-813-11	METAL CHIP	220	5%	1/10W
R870	1-216-833-11	METAL CHIP	10K	5%	1/10W
R871	1-216-833-11	METAL CHIP	10K	5%	1/10W
R872	1-216-833-11	METAL CHIP	10K	5%	1/10W
R873	1-216-833-11	METAL CHIP	10K	5%	1/10W
R874	1-216-833-11	METAL CHIP	10K	5%	1/10W
R875	1-216-833-11	METAL CHIP	10K	5%	1/10W
R876	1-216-833-11	METAL CHIP	10K	5%	1/10W
R877	1-216-833-11	METAL CHIP	10K	5%	1/10W
R878	1-216-833-11	METAL CHIP	10K	5%	1/10W
R879	1-216-833-11	METAL CHIP	10K	5%	1/10W
R880	1-216-833-11	METAL CHIP	10K	5%	1/10W
R881	1-216-833-11	METAL CHIP	10K	5%	1/10W
R882	1-216-833-11	METAL CHIP	10K	5%	1/10W
R883	1-216-833-11	METAL CHIP	10K	5%	1/10W
R884	1-216-833-11	METAL CHIP	10K	5%	1/10W
R885	1-216-833-11	METAL CHIP	10K	5%	1/10W
R886	1-216-833-11	METAL CHIP	10K	5%	1/10W
R887	1-216-833-11	METAL CHIP	10K	5%	1/10W
R888	1-216-833-11	METAL CHIP	10K	5%	1/10W
R889	1-216-833-11	METAL CHIP	10K	5%	1/10W
R890	1-216-833-11	METAL CHIP	10K	5%	1/10W
R891	1-216-841-11	METAL CHIP	47K	5%	1/10W
R892	1-216-845-11	METAL CHIP	100K	5%	1/10W
R893	1-216-853-11	METAL CHIP	470K	5%	1/10W
R894	1-216-841-11	METAL CHIP	47K	5%	1/10W
R895	1-216-813-11	METAL CHIP	220	5%	1/10W
R896	1-216-813-11	METAL CHIP	220	5%	1/10W
R899	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R900	1-216-821-11	METAL CHIP	1K	5%	1/10W
R901	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT AUS,AR,KR,TW)
R902	1-216-841-11	METAL CHIP	47K	5%	1/10W (AUS,AR,KR,TW)
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W (CND,E92,AUS,AR,KR,MX,TW)
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP,UK,E41,CET,IT,SP,TH)
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W (CND,E92,AR,MX)

CFD-S01
Ver. 1.2

MAIN **POWER** **TC**

Ref. No.	Part No.	Description			Remark
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
			(EXCEPT CND,E92,AR,MX)		
R951	1-216-841-11	METAL CHIP	47K	5%	1/10W
R952	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R953	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R957	1-216-833-11	METAL CHIP	10K	5%	1/10W
R958	1-216-813-11	METAL CHIP	220	5%	1/10W
R959	1-216-809-11	METAL CHIP	100	5%	1/10W
R960	1-216-821-11	METAL CHIP	1K	5%	1/10W
R961	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R962	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R963	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R964	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< TRANSFORMER >			
T1	1-433-741-11	TRANSFORMER, IF			
		< VIBRATOR >			
X1	1-795-449-11	VIBRATOR, CRYSTAL (75kHz)			
X701	1-795-563-21	VIBRATOR, CERAMIC (16.93MHz)			
X801	1-795-915-11	VIBRATOR, CRYSTAL (32.768kHz)			
X802	1-795-054-21	VIBRATOR, CERAMIC (4.19MHz)			
**********					
	A-1147-591-A	POWER BOARD, COMPLETE			
			(EXCEPT CND,E92,MX)		
	A-1154-888-A	POWER BOARD, COMPLETE (E92,MX)			
	A-1174-394-A	POWER BOARD, COMPLETE (CND)			
		**********			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C902	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C903	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C904	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C906	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN902	1-815-443-11	PIN, CONNECTOR (PWB) 2P			
		< DIODE >			
D901	8-719-063-79	DIODE 1N4002B			
D902	8-719-063-79	DIODE 1N4002B			
D903	8-719-063-79	DIODE 1N4002B			
D904	8-719-063-79	DIODE 1N4002B			
		< AC INLET >			
⚠J901	1-526-818-11	INLET, AC (～ AC IN) (E92,MX)			
⚠J901	1-526-838-11	INLET, AC 2P (～ AC IN) (EXCEPT CND,E92,MX)			
⚠J901	1-540-009-11	INLET, AC (～ AC IN) (CND)			
**********					

Ref. No.	Part No.	Description			Remark
	A-1147-592-A	TC BOARD, COMPLETE (AEP,UK,CET,IT,KR)			
	A-1158-702-A	TC BOARD, COMPLETE			
			(EXCEPT AEP,UK,CET,IT,KR)		
		**********			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-104-658-91	ELECT	100uF	20%	10V
C103	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C104	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C105	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C107	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-104-658-91	ELECT	100uF	20%	10V
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C301	1-104-658-91	ELECT	100uF	20%	10V
C302	1-104-658-91	ELECT	100uF	20%	10V
C303	1-104-658-91	ELECT	100uF	20%	10V
C304	1-126-947-11	ELECT	47uF	20%	35V
C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN301	1-568-830-11	CONNECTOR, FFC 11P			
		< FERRITE BEAD >			
FB201	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP,UK,CET,IT,KR)		
FB201	1-414-445-11	FERRITE, EMI (SMD) (1608) (AEP,UK,CET,IT,KR)			
FB202	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP,UK,CET,IT,KR)		
FB202	1-414-445-11	FERRITE, EMI (SMD) (1608) (AEP,UK,CET,IT,KR)			
FB203	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP,UK,CET,IT,KR)		
FB203	1-414-445-11	FERRITE, EMI (SMD) (1608) (AEP,UK,CET,IT,KR)			
FB204	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP,UK,CET,IT,KR)		
FB204	1-414-445-11	FERRITE, EMI (SMD) (1608) (AEP,UK,CET,IT,KR)			
FB205	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP,UK,CET,IT,KR)		
FB205	1-414-445-11	FERRITE, EMI (SMD) (1608) (AEP,UK,CET,IT,KR)			
FB206	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP,UK,CET,IT,KR)		
FB206	1-414-445-11	FERRITE, EMI (SMD) (1608) (AEP,UK,CET,IT,KR)			
FB207	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP,UK,CET,IT,KR)		
FB207	1-414-445-11	FERRITE, EMI (SMD) (1608) (AEP,UK,CET,IT,KR)			
		< IC >			
IC301	8-759-264-71	IC TA2068N			
		< JUMPER RESISTOR >			
JC302	1-216-864-11	SHORT CHIP	0		
JC303	1-216-864-11	SHORT CHIP	0		
JC305	1-216-864-11	SHORT CHIP	0		
JC306	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q301	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
		< RESISTOR >			
R101	1-216-837-11	METAL CHIP	22K	5%	1/10W
R102	1-216-805-11	METAL CHIP	47	5%	1/10W
R103	1-216-845-11	METAL CHIP	100K	5%	1/10W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R105	1-216-837-11	METAL CHIP	22K	5%	1/10W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R107	1-216-841-11	METAL CHIP	47K	5%	1/10W
R108	1-216-801-11	METAL CHIP	22	5%	1/10W
R109	1-216-849-11	METAL CHIP	220K	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-821-11	METAL CHIP	1K	5%	1/10W
R201	1-216-837-11	METAL CHIP	22K	5%	1/10W
R202	1-216-805-11	METAL CHIP	47	5%	1/10W
R203	1-216-845-11	METAL CHIP	100K	5%	1/10W
R204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R205	1-216-837-11	METAL CHIP	22K	5%	1/10W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R207	1-216-841-11	METAL CHIP	47K	5%	1/10W
R208	1-216-801-11	METAL CHIP	22	5%	1/10W
R209	1-216-849-11	METAL CHIP	220K	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R212	1-216-821-11	METAL CHIP	1K	5%	1/10W
R301	1-216-857-11	METAL CHIP	1M	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-821-11	METAL CHIP	1K	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-797-11	METAL CHIP	10	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W
R309	1-216-805-11	METAL CHIP	47	5%	1/10W
R312	1-216-837-11	METAL CHIP	22K	5%	1/10W
R314	1-216-817-11	METAL CHIP	470	5%	1/10W
R315	1-216-817-11	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S301	1-786-126-11	SWITCH, SLIDE (REC/PB)			
		< TRANSFORMER >			
T301	1-443-758-11	TRANSFORMER, BIAS OSCILLATION			

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
56	1-797-376-11	DECK, MECHANICAL	
152	1-452-899-11	MAGNET	
204	1-831-623-11	CABLE, FLEXIBLE FLAT (16 CORE)	
206	1-831-614-11	CABLE, FLEXIBLE FLAT (6 CORE)	
⚠217	8-820-126-01	OPTICAL PICK-UP (KSM-213CDP/C2NP)	
255	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (SPINDLE)	(including M701)
⚠256	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)	
ANT2	1-754-376-11	ANTENNA, TELESCOPIC (FM)	
⚠F902	1-533-468-12	FUSE, GLASS TUBE (DIA. 5) (2A/250V)	
M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
S801	1-692-960-21	SWITCH, PUSH (1 KEY)	(⏏ PUSH OPEN/CLOSE)
SP101	1-826-280-11	SPEAKER (7.7cm) (L-CH)	
SP201	1-826-280-11	SPEAKER (7.7cm) (R-CH)	
⚠T901	1-443-861-11	TRANSFORMER, POWER	(EXCEPT CND,E92,MX,TW)
⚠T901	1-443-871-11	TRANSFORMER, POWER (CND,E92,MX,TW)	
		ACCESSORIES	
		**********	
⚠	1-590-342-12	CORD, POWER (E92,MX)	
⚠	1-769-412-22	CORD, POWER (AEP,UK,CET,SP,E41,IT,TH)	
⚠	1-770-019-61	ADAPTOR, CONVERSION PLUG (UK)	
⚠	1-776-985-12	CORD, POWER (KR)	
⚠	1-782-126-11	CORD, POWER (CND)	
⚠	1-783-952-21	CORD, POWER (AR)	
⚠	1-827-945-12	CORD, POWER (AUS)	
⚠	1-827-946-21	CORD, POWER (UK)	
⚠	1-829-433-11	CORD, POWER (TW)	
	2-655-834-13	MANUAL, INSTRUCTION (ENGLISH)	(CND,E92,TW)
	2-655-834-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	2-655-834-32	MANUAL, INSTRUCTION (ENGLISH)	(AEP,UK,AUS,KR,SP,AR,TH)
	2-655-834-41	MANUAL, INSTRUCTION (FRENCH,GERMAN)	(AEP,SP)
	2-655-834-51	MANUAL, INSTRUCTION	(DUTCH,PORTUGUESE) (AEP)
	2-655-834-61	MANUAL, INSTRUCTION (ITALIAN) (IT)	
	2-655-834-71	MANUAL, INSTRUCTION (FINNISH,SWEDISH)	(CET)
	2-655-834-81	MANUAL, INSTRUCTION (POLISH) (CET)	
	2-655-834-91	MANUAL, INSTRUCTION (CZECH,HUNGARIAN)	(CET)
	2-655-835-11	MANUAL, INSTRUCTION	(SLOVAKIAN,RUSSIAN) (CET)
	2-655-835-21	MANUAL, INSTRUCTION (KOREAN) (KR)	
	2-655-835-41	MANUAL, INSTRUCTION (SPANISH) (E92,MX)	
	2-655-835-51	MANUAL, INSTRUCTION (SPANISH)	(AEP,E41,AR)
	2-655-835-61	MANUAL, INSTRUCTION	(TRADITIONAL CHINESE) (TW)
	2-655-835-71	MANUAL, INSTRUCTION (UKRAINIAN) (CET)	

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2005.11	New
1.1	2005.12	Canadian, AEP, Australian, East European, Russian, Korea, Mexican and Singapore model addition.
1.2	2006.03	E41, E92, Argentina, Italian, Thai and Taiwan model addition.
1.3	2007.07	MANUAL, INSTRUCTION of ukrainian is added to East European & Russian models. (SPM-07058)